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Compilation of Henry's law constants (version 4.0) for water as solvent

R. Sander

Air Chemistry Department, Max-Planck Institute of Chemistry, P.O. Box 3060, 55020 Mainz, Germany

Correspondence to: R. Sander
(rolf.sander@mpic.de)

Abstract. Many atmospheric chemicals occur in the gas phase as well as in liquid cloud droplets and aerosol particles. Therefore, it is necessary to understand the distribution between the phases. According to Henry's law, the equilibrium ratio between the abundances in the gas phase and in the aqueous phase is constant for a dilute solution. Henry's law constants of trace gases of potential importance in environmental chemistry have been collected and converted into a uniform format. The compilation contains 17350 values of Henry's law constants for 4632 species, collected from 689 references. It is also available on the internet at http://www.henrys-law.org.

1 Introduction

Henry's law is named after the English chemist William Henry, who studied the topic in the early 19th century. In his publication about the quantity of gases absorbed by water (Henry, 1803), he described the results of his experiments:

> [...] water takes up, of gas condensed by one, two, or more additional atmospheres, a quantity which, ordinarily compressed, would be equal to twice, thrice, &c. the volume absorbed under the common pressure of the atmosphere.

In other words, the amount of dissolved gas is proportional to its partial pressure in the gas phase. The proportionality factor is called the Henry's law constant. In atmospheric chemistry, these constants are needed to describe the distribution of trace species between the air and liquid cloud droplets or aerosol particles. In another area of environmental research, the constants are needed to calculate the vaporization of chemicals from rivers and during waste water treatment (e.g. Shen, 1982; Hawthorne et al., 1985; David et al., 2000).

Section 2 provides theoretical background about Henry's law and commonly used quantities and units. In Sect. 3, the compilation of Henry's law constants is described in detail. Additional information can be found in the electronic supplement, which is described in Sect. 4.

2 Theoretical background

This publication tries to follow the recommendations of the International Union of Pure and Applied Chemistry (IUPAC) as far as possible. General recommendations for physical chemistry have been published in the so-called "Green Book" by Mills et al. (1993). In addition, there are also the more specific articles about atmospheric chemistry by Calvert (1990) and about solubility by Gamsjäger et al. (2008, 2010). In accordance with the Green Book, the name "Henry's law constant" is used here throughout the text, not "Henry's law coefficient". Nevertheless, it should be kept in mind that its value still depends on some parameters, e.g., temperature and ionic strength of the solution. IUPAC recommendations for terminology, symbols, and units of Henry's law constants are described in the following sections.

2.1 Fundamental types of Henry's law constants

There are many variants of Henry's law constants which can all be classified into two fundamental types: One possibility is to put the aqueous phase into the numerator and the gas phase into the denominator, i.e., define the constant as the quotient A/G. Here, A and G are quantities describing the equilibrium composition (at infinite dilution) of the aqueous phase and the gas phase, respectively. Alternatively, the Henry's law constant can be defined as the quotient G/A, which results in the inverse value. There is no advantage

Table 1. Conversion factors between several Henry's law solubility constants H (at $T^{\ominus}$ = 298.15 K and $\varrho^{\ominus}$ = 997 $\mathrm{kg/m^3}$).

	$H^{cp} = \ldots \frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}$	$H^{cp} = \ldots \frac{\mathrm{M}}{\mathrm{atm}}$	$H^{cc} = \ldots$	$H^{bp} = \ldots \frac{\mathrm{mol}}{\mathrm{kg\,Pa}}$	$H^{bp} = \ldots \frac{\mathrm{mol}}{\mathrm{kg\,atm}}$	$H^{xp} = \ldots \frac{1}{\mathrm{atm}}$	$\alpha = \ldots$
$H^{cp} = 1\ \frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}$	1.00000	101.325	2478.96	1.00301×10^{-3}	101.630	1.83089	2271.10
$H^{cp} = 1\ \frac{\mathrm{M}}{\mathrm{atm}}$	9.86923×10^{-3}	1.00000	24.4654	9.89893×10^{-6}	1.00301	0.0180695	22.4140
$H^{cc} = 1$	4.03395×10^{-4}	0.0408740	1.00000	4.04609×10^{-7}	0.0409970	7.38573×10^{-4}	0.916150
$H^{bp} = 1\ \frac{\mathrm{mol}}{\mathrm{kg\,Pa}}$	997.000	1.01021×10^{5}	2.47152×10^{6}	1.00000	1.01325×10^{5}	1825.40	2.26428×10^{6}
$H^{bp} = 1\ \frac{\mathrm{mol}}{\mathrm{kg\,atm}}$	9.83962×10^{-3}	0.997000	24.3920	9.86923×10^{-6}	1.00000	0.0180153	22.3467
$H^{xp} = 1\ \frac{1}{\mathrm{atm}}$	0.546182	55.3419	1353.96	5.47826×10^{-4}	55.5084	1.00000	1240.43
$\alpha = 1$	4.40316×10^{-4}	0.0446150	1.09152	4.41641×10^{-7}	0.0447493	8.06171×10^{-4}	1.00000

Table 2. Conversion factors between several Henry's law volatility constants K_{H} (at $T^{\ominus}$ = 298.15 K and $\varrho^{\ominus}$ = 997 $\mathrm{kg/m^3}$).

	$K_{\mathrm{H}}^{px} = \ldots \mathrm{atm}$	$K_{\mathrm{H}}^{pc} = \ldots \frac{\mathrm{m^3\,Pa}}{\mathrm{mol}}$	$K_{\mathrm{H}}^{pc} = \ldots \frac{\mathrm{m^3\,atm}}{\mathrm{mol}}$	$K_{\mathrm{H}}^{cc} = \ldots$
$K_{\mathrm{H}}^{px} = 1\ \mathrm{atm}$	1.00000	1.83089	1.80695×10^{-5}	7.38573×10^{-4}
$K_{\mathrm{H}}^{pc} = 1\ \frac{\mathrm{m^3\,Pa}}{\mathrm{mol}}$	0.546182	1.00000	9.86923×10^{-6}	4.03395×10^{-4}
$K_{\mathrm{H}}^{pc} = 1\ \frac{\mathrm{m^3\,atm}}{\mathrm{mol}}$	55341.9	1.01325×10^{5}	1.00000	40.8740
$K_{\mathrm{H}}^{cc} = 1$	1353.96	2478.96	0.0244654	1.00000

Table 3. Products of Henry's law solubility constants H and Henry's law volatility constants K_{H} (at $T^{\ominus}$ = 298.15 K and $\varrho^{\ominus}$ = 997 $\mathrm{kg/m^3}$). For example, if $K_{\mathrm{H}}^{px} = 5\ \mathrm{atm}$, then $H^{bp} \approx 11\ \mathrm{mol/(kg\,atm)}$ because $5 \times 11 \approx 55.5084$.

	$\frac{H^{cp}}{\mathrm{mol/(m^3\,Pa)}}$	$\frac{H^{cp}}{\mathrm{M/atm}}$	$\frac{H^{cc}}{1}$	$\frac{H^{bp}}{\mathrm{mol/(kg\,Pa)}}$	$\frac{H^{bp}}{\mathrm{mol/(kg\,atm)}}$	$\frac{H^{xp}}{1/\mathrm{atm}}$	$\frac{\alpha}{1}$
$\frac{K_{\mathrm{H}}^{px}}{\mathrm{atm}}$	0.546182	55.3419	1353.96	5.47826×10^{-4}	55.5084	1.00000	1240.43
$\frac{K_{\mathrm{H}}^{pc}}{\mathrm{m^3\,Pa/mol}}$	1.00000	101.325	2478.96	1.00301×10^{-3}	101.630	1.83089	2271.10
$\frac{K_{\mathrm{H}}^{pc}}{\mathrm{m^3\,atm/mol}}$	9.86923×10^{-6}	1.00000×10^{-3}	0.0244654	9.89893×10^{-9}	1.00301×10^{-3}	1.80695×10^{-5}	0.0224140
$\frac{K_{\mathrm{H}}^{cc}}{1}$	4.03395×10^{-4}	0.0408740	1.00000	4.04609×10^{-7}	0.0409970	7.38573×10^{-4}	0.916150

or disadvantage in using one or the other, the two types exist purely for historical reasons. Unfortunately, the name "Henry's law constant" is used for both types. Therefore, statements like "a large Henry's law constant" are meaningless unless the type is specified. Especially the dimensionless constants (see Sects. 2.4.2 and 2.5.3) are very error-prone because their type cannot be deduced from the unit. In order to have a consistent terminology, I recommend the name "Henry's law solubility constant" (or "Henry solubility" for conciseness) when refering to A/G. When refering to G/A, the name "Henry's law volatility constant" (or "Henry volatility") is used.

2.2 Variants of Henry's law constants

For both of the fundamental types described in the previous section, there are several variants. This results from the multiplicity of quantities that can be chosen to describe the composition of the two phases. Typical choices for the aqueous phase are molar concentration (c_a), molality (b), and molar mixing ratio (x). For the gas phase, molar concentration (c_g) and partial pressure (p) are often used. Note, however, that it is not possible to use the gas-phase mixing ratio (y). At a given gas-phase mixing ratio, the aqueous-phase concentration c_a depends on the total pressure and thus the ratio y/c_a is not a constant.

There are numerous combinations of these quantities. The most frequently used variants of Henry solubilities and Henry volatilities are presented in Sects. 2.4 and 2.5, respectively. Conversion factors between them are shown in Tables 1, 2, and 3. Further information about the conversion between different units and definitions of Henry's law constants can be found in Sander (1999) or Sazonov and Shaw (2006).

2.3 Symbols

In the current literature, a plethora of different symbols is used for the Henry's law constants. Several symbols are used for the same variant, and sometimes the same symbol is used for different variants. However, for this work a consistent terminology is indispensable. For Henry's law solubility constants, I follow the IUPAC recommendation for atmospheric chemistry by Calvert (1990) and use the symbol H. Choosing a suitable symbol for Henry's law volatility constants is more difficult. Although the IUPAC Green Book by Mills et al. (1993) recommends the symbol k_H with a lower case letter k, this symbol is hardly used at all in the literature. A major disadvantage is its internal inconsistency with other IUPAC recommendations: Normally, the lower case letter k describes rate constants, whereas the upper case letter K describes equilibrium constants (Mills et al., 1993). Considering this problem, I decided to use and recommend the symbol K_H with an upper case letter K.

To specify the exact variant of the Henry's law constant, two superscripts are used. They refer to the numerator and the denominator of the definition. For example, H^{cp} refers to the Henry solubility defined as c/p. If H refers to standard conditions ($T^\ominus = 298.15\,\mathrm{K}$) it will be denoted as $H^\ominus$. A summary of the symbols is shown in Table 4.

2.4 Henry's law solubility constants H

2.4.1 Henry solubility defined via concentration (H^{cp})

Atmospheric chemists often define the Henry solubility as:

$$H^{cp} \stackrel{\text{def}}{=} c_\mathrm{a}/p. \tag{1}$$

Here, c_a is the concentration of a species in the aqueous phase and p is the partial pressure of that species in the gas phase under equilibrium conditions.

The SI unit for H^{cp} is $\mathrm{mol\,(m^3\,Pa)^{-1}}$. However, often the unit $\mathrm{M\,atm^{-1}}$ is used since c_a is usually expressed in M ($1\,\mathrm{M} = 1\,\mathrm{mol\,dm^{-3}}$) and p in atm ($1\,\mathrm{atm} = 101\,325\,\mathrm{Pa}$).

2.4.2 The dimensionless Henry solubility H^{cc}

The Henry solubility can also be expressed as the dimensionless ratio between the aqueous-phase concentration c_a of a species and its gas-phase concentration c_g:

$$H^{cc} \stackrel{\text{def}}{=} c_\mathrm{a}/c_\mathrm{g}. \tag{2}$$

For an ideal gas, the conversion is:

$$H^{cc} = H^{cp} \times RT, \tag{3}$$

where $R =$ gas constant (see Table 4) and $T =$ temperature.

Sometimes, this dimensionless constant is called the "water-air partitioning coefficient" K_WA. It is closely related to the various, slightly different definitions of the "Ostwald coefficient" L, as discussed by Battino (1984).

2.4.3 Henry solubility defined via aqueous-phase mixing ratio (H^{xp})

Another Henry's law solubility constant is:

$$H^{xp} \stackrel{\text{def}}{=} x/p. \tag{4}$$

Here, x is the molar mixing ratio in the aqueous phase. For a dilute, aqueous solution the conversion between x and c_a is:

$$c_\mathrm{a} \approx x \frac{\varrho_{\mathrm{H_2O}}}{M_{\mathrm{H_2O}}}, \tag{5}$$

where $\varrho_{\mathrm{H_2O}} =$ density of water and $M_{\mathrm{H_2O}} =$ molar mass of water. Thus:

$$H^{xp} \approx \frac{M_{\mathrm{H_2O}}}{\varrho_{\mathrm{H_2O}}} \times H^{cp}. \tag{6}$$

The SI unit for H^{xp} is $\mathrm{Pa^{-1}}$. However, $\mathrm{atm^{-1}}$ is still frequently used.

Table 4. List of Symbols.

symbol	quantity	SI-unit
α	Bunsen coefficient	dimensionless
ϱ	density	$\mathrm{kg\,m^{-3}}$
A	parameter for T dependence of H	dimensionless
b	molality	$\mathrm{mol\,kg^{-1}}$
B	parameter for T dependence of H	dimensionless
C	parameter for T dependence of H	dimensionless
c_a	aqueous-phase concentration	$\mathrm{mol\,m_{aq}^{-3}}$
c_g	gas-phase concentration	$\mathrm{mol\,m_{g}^{-3}}$
D	parameter for T dependence of H	dimensionless
$\Delta_\mathrm{sol}H$	molar enthalpy of dissolution	$\mathrm{J\,mol^{-1}}$
H	Henry solubility (all variants)	miscellaneous
$H^\ominus$	H at standard temperature $T^\ominus$	miscellaneous
H^{bp}	Henry solubility (defined as b/p)	$\mathrm{mol\,(kg\,Pa)^{-1}}$
H^{cc}	Henry solubility (defined as c/c)	dimensionless
H^{cp}	Henry solubility (defined as c/p)	$\mathrm{mol\,m_{aq}^{-3}\,Pa^{-1}}$
H_eff	effective Henry solubility	miscellaneous
H'	$H \times K_\mathrm{A}$ (for strong acids)	miscellaneous
K_A	acid constant	$\mathrm{mol\,m_{aq}^{-3}}$
K_AW	air-water partitioning coefficient $= K_\mathrm{H}^{cc}$	dimensionless
K_H	Henry volatility (all variants)	miscellaneous
$K_\mathrm{H}^\ominus$	K_H at standard temperature $T^\ominus$	miscellaneous
K_H^{cc}	Henry volatility (defined as c/c)	dimensionless
K_H^{pc}	Henry volatility (defined as p/c)	$\mathrm{m_{aq}^3\,Pa\,mol^{-1}}$
K_H^{px}	Henry volatility (defined as p/x)	Pa
K_WA	water-air partitioning coefficient $= H^{cc}$	dimensionless
L	Ostwald coefficient	dimensionless
M	molar mass	$\mathrm{kg\,mol^{-1}}$
p	partial pressure $= c_\mathrm{g}RT$	Pa
R	gas constant	$8.314\,\mathrm{J\,(mol\,K)^{-1}}$
T	temperature	K
$T^\ominus$	standard temperature	298.15 K
T^STP	standard temperature for Bunsen coefficient	273.15 K
x	molar mixing ratio in the aqueous phase	$\mathrm{mol\,mol^{-1}}$ (dimensionless)
y	molar mixing ratio in the gas phase	$\mathrm{mol\,mol^{-1}}$ (dimensionless)

2.4.4 Henry solubility defined via molality (H^{bp})

It can be advantageous to describe the aqueous phase in terms of molality instead of concentration. The molality of a solution does not change with T since it refers to the *mass* of the solvent. In contrast, the concentration c does change with T, since the density of a solution and thus its volume are temperature-dependent. Defining the aqueous-phase composition via molality has the advantage that any temperature dependence of the Henry's law constant is a true solubility phenomenon and not introduced indirectly via a density change of the solution. Using molality, the Henry solubility can be defined as:

$$H^{bp} \stackrel{\mathrm{def}}{=} b/p. \tag{7}$$

Here, b is used as the symbol for molality (instead of m) to avoid confusion with the symbol m for mass. The SI unit for H^{bp} is $\mathrm{mol\,(kg\,Pa)^{-1}}$. There is no simple way to calculate H^{cp} from H^{bp} since the conversion between concentration c_a and molality b involves *all* solutes of a solution. For a solution with a total of n solutes with indices $i = 1, \ldots, n$, the conversion is:

$$c_\mathrm{a} = \frac{b\varrho}{1 + \sum_{i=1}^{n} b_i M_i}, \tag{8}$$

where $\varrho =$ density of the solution, and $M =$ molar mass. Here, b is identical to one of the b_i in the denominator. If there is only one solute, Eq. (8) simplifies to:

$$c_\mathrm{a} = \frac{b\varrho}{1 + bM}. \tag{9}$$

Henry's law is only valid for dilute solutions where $bM \ll 1$ and $\varrho \approx \varrho_{\mathrm{H_2O}}$. In this case the conversion reduces further to:

$$c_\mathrm{a} \approx b\varrho_{\mathrm{H_2O}} \tag{10}$$

and thus:

$$H^{bp} \approx H^{cp}/\varrho_{\mathrm{H_2O}}. \tag{11}$$

2.4.5 The dimensionless Bunsen coefficient α

According to Sazonov and Shaw (2006), the dimensionless Bunsen coefficient α is defined as: "The volume of saturating gas, reduced to 273.15 K and 1 bar, which is absorbed by unit volume of pure solvent at the temperature of measurement and partial pressure of 1 bar". If the gas is ideal, the pressure cancels out, and the conversion to H^{cp} simply is:

$$H^{cp} = \alpha \times \frac{1}{RT^{\mathrm{STP}}} \tag{12}$$

with $T^{\mathrm{STP}} = 273.15\,\mathrm{K}$. Note, that according to this definition, the conversion factor is *not* temperature-dependent! Independent of the temperature that the Bunsen coefficient refers to, 273.15 K is always used for the conversion. The Bunsen coefficient has been used mainly in the older literature.

2.4.6 The Kuenen coefficient S

According to Sazonov and Shaw (2006), the Kuenen coefficient S is defined as: "The volume of saturating gas, reduced to 273.15 K and 1 bar, which is dissolved by unit mass of pure solvent at the temperature of measurement and partial pressure 1 bar". If the gas is ideal, the relation to H^{cp} is:

$$H^{cp} = S \times \frac{\varrho}{RT^{\mathrm{STP}}}, \tag{13}$$

where ϱ is the density of the solvent and $T^{\mathrm{STP}} = 273.15\,\mathrm{K}$. The SI unit for S is $\mathrm{m^3\,kg^{-1}}$. The Kuenen coefficient has been used mainly in the older literature. IUPAC considers it to be obsolete (Gamsjäger et al., 2010).

2.5 Henry's law volatility constants K_{H}

2.5.1 The Henry volatility defined via concentration (K_{H}^{pc})

A common way to define a Henry volatility is dividing the partial pressure by the aqueous-phase concentration:

$$K_{\mathrm{H}}^{pc} \stackrel{\mathrm{def}}{=} p/c_{\mathrm{a}} = 1/H^{cp}. \tag{14}$$

The SI unit for K_{H}^{pc} is $\mathrm{Pa\,m^3\,mol^{-1}}$.

2.5.2 The Henry volatility defined via aqueous-phase mixing ratio (K_{H}^{px})

Another Henry volatility is:

$$K_{\mathrm{H}}^{px} \stackrel{\mathrm{def}}{=} p/x = 1/H^{xp}. \tag{15}$$

The SI unit for K_{H}^{px} is Pa. However, atm is still frequently used.

2.5.3 The dimensionless Henry volatility K_{H}^{cc}

The Henry volatility can also be expressed as the dimensionless ratio between the gas-phase concentration c_{g} of a species and its aqueous-phase concentration c_{a}:

$$K_{\mathrm{H}}^{cc} \stackrel{\mathrm{def}}{=} c_{\mathrm{g}}/c_{\mathrm{a}} = 1/H^{cc}. \tag{16}$$

In chemical engineering, this dimensionless constant is sometimes called the "air-water partitioning coefficient" K_{AW}.

2.6 Temperature dependence of Henry's law constants

The temperature dependence of equilibrium constants can generally be described with the van't Hoff equation (e.g. Atkins, 1986). It also applies to Henry's law constants:

$$\frac{\mathrm{d}\ln H}{\mathrm{d}(1/T)} = \frac{-\Delta_{\mathrm{sol}}H}{R}, \tag{17}$$

where $\Delta_{\mathrm{sol}}H =$ enthalpy of dissolution. Note that the letter H in the symbol $\Delta_{\mathrm{sol}}H$ refers to enthalpy and is not related to the letter H for Henry's law constants. Integrating the above equation leads to:

$$H(T) = A \times \exp\left(\frac{B}{T}\right) \tag{18}$$

with the parameters A and B. When reporting H as a function of these parameters, it is important to present sufficient significant digits of B because H depends exponentially on it. Alternatively, one can create an expression based on $H^{\ominus}$ at the reference temperature $T^{\ominus} = 298.15\,\mathrm{K}$:

$$H(T) = H^{\ominus} \times \exp\left(\frac{-\Delta_{\mathrm{sol}}H}{R}\left(\frac{1}{T} - \frac{1}{T^{\ominus}}\right)\right). \tag{19}$$

Here, $H^{\ominus} = A \times \exp(B/T^{\ominus})$ and $\Delta_{\mathrm{sol}}H/R = -B$. In this work, the values $H^{\ominus}$ and $-\Delta_{\mathrm{sol}}H/R$ are tabulated.

The van't Hoff equation in this form is only valid for a limited temperature range in which $\Delta_{\mathrm{sol}}H$ does not change much with temperature. To cover a larger temperature range, in which $\Delta_{\mathrm{sol}}H$ cannot be considered constant anymore, different empirical methods can be used. Often, the temperature dependence $\mathrm{d}\ln H/\mathrm{d}(1/T)$ is expressed as the sum of several terms. Then, the analytical derivative is simply the sum of the derivatives of the individual terms. For example, Wilhelm et al. (1977) use the formula:

$$\ln H = A + B \times T^{-1} + C \times \ln T + D \times T. \tag{20}$$

Using the derivatives from Table 5, the temperature dependence of this expression can be calculated as:

$$\frac{\mathrm{d}\ln H}{\mathrm{d}(1/T)} = 0 + B - C \times T - D \times T^2. \tag{21}$$

Table 5. Temperature-dependent terms and their analytical derivatives. Here, C, C_1 and C_2 are the empirical fit parameters defining $\ln(H)$. See Sect. 2.6 for details.

$\ln(H)$	$\frac{\mathrm{d}\ln H}{\mathrm{d}(1/T)}$
C	0
C/T	C
CT	$-CT^2$
CT^2	$-2C/T^3$
C/T^2	$2C/T$
C/T^3	$3C/T^2$
$C\ln(T)$	$-CT$
$C_1\ln(C_2T)$	$-C_1T$ (independent of C_2)
$C\lg(T)$	$-CT/\ln(10)$

Note that the temperature dependences for H^{cp} and H^{cc} are different since the conversion factor between them includes the temperature:

$$\begin{aligned} H^{cp} &= H^{cc}/(RT) \\ \Leftrightarrow \ln H^{cp} &= \ln H^{cc} + \ln(1/R) + \ln(1/T) \\ \Rightarrow \frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)} &= \frac{\mathrm{d}\ln H^{cc}}{\mathrm{d}(1/T)} + \frac{\mathrm{d}\ln(1/T)}{\mathrm{d}(1/T)} \\ &= \frac{\mathrm{d}\ln H^{cc}}{\mathrm{d}(1/T)} + T. \end{aligned} \tag{22}$$

2.7 Effective Henry's law solubility constants H_{eff}

The Henry's law constants mentioned so far do not consider any chemical equilibria in the aqueous phase. This type is called the "intrinsic" (or "physical") Henry's law constant. For example, the intrinsic Henry's law constant of methanal can be defined as:

$$H^{cp} = \frac{c(\mathrm{HCHO})}{p(\mathrm{HCHO})} \tag{23}$$

In aqueous solution, methanal is almost completely hydrated:

$$\mathrm{HCHO} + \mathrm{H_2O} \rightleftharpoons \mathrm{H_2C(OH)_2} \tag{24}$$

The total concentration of dissolved methanal is:

$$c_{\mathrm{tot}} = c(\mathrm{HCHO}) + c(\mathrm{H_2C(OH)_2}) \tag{25}$$

Taking this equilibrium into account, an effective Henry's law constant H_{eff} can be defined:

$$H_{\mathrm{eff}} = \frac{c_{\mathrm{tot}}}{p(\mathrm{HCHO})} = \frac{c(\mathrm{HCHO}) + c(\mathrm{H_2C(OH)_2})}{p(\mathrm{HCHO})} \tag{26}$$

For acids and bases, the effective Henry's law constant is not a useful quantity because it depends on the pH of the solution (Sander, 1999). In order to obtain a pH-independent constant, the product of the intrinsic Henry's law constant H^{cp} and the acidity constant K_{A} is often used for strong acids, e.g., for HCl:

$$H' = H^{cp} \times K_{\mathrm{A}} = \frac{c(\mathrm{H^+}) \times c(\mathrm{Cl^-})}{p(\mathrm{HCl})} \tag{27}$$

Although H' is usually also called a Henry's law constant, it should be noted that it is a different quantity and it has different units than H^{cp}.

2.8 Dependence of Henry's law constants on the composition of the solution

Values of Henry's law constants for aqueous solutions depend on the composition of the solution, i.e., on its ionic strength and on dissolved organics. In general, the solubility of a gas decreases with increasing salinity ("salting out"). However, a "salting in" effect has also been observed, e.g., for the effective Henry's law constant of glyoxal (Kampf et al., 2013; Kurtén et al., 2014). The effect can be described with the Sechenov equation (Setschenow, 1889). Note that the scientific transliteration from Cyrillic is "Sechenov" but the original article was written in German and used the German transliteration "Setschenow". There are many alternative ways to define the Sechenov equation, depending on how the aqueous-phase composition is described (based on concentration, molality, or molar fraction) and which variant of the Henry's law constant is used. Describing the solution in terms of molality is preferred because molality is invariant to temperature and to the addition of dry salt to the solution (see Sander (1999) for details). Thus, the Sechenov equation can be written as:

$$\log\left(\frac{H_0^{bp}}{H^{bp}}\right) = k_{\mathrm{s}} \times b(\mathrm{salt}) \tag{28}$$

where H_0^{bp} = Henry's law constant in pure water, H^{bp} = Henry's law constant in the salt solution, k_{s} = molality-based Sechenov constant, and $b(\mathrm{salt})$ = molality of the salt.

Since the atmosphere contains very dilute cloud droplets as well as highly concentrated aerosols, adequate values of Henry's law constants should be used. Unfortunately, Sechenov parameters are unknown for many species. A list of some available data is presented in Sect. 3.2.4.

3 Values of Henry's law constants

3.1 The data compilation

The compilation of Henry's law constants is presented in Table 6, and it is also available online at http://www.henrys-law.org. It contains Henry's law constants for inorganic and organic species of potential importance in environmental chemistry. Most data were measured at ambient conditions (between 20 °C and 25 °C and 1 atm). Data at high

temperatures are excluded or (if possible) extrapolated to $T^{\ominus} = 298.15\,\mathrm{K}$. All data refer to aqueous solutions; octanol and other solvents are not included. The constants refer to pure water as solvent unless noted otherwise (e.g., sea water).

Inorganic substances are sorted according to the elements they contain. The order chosen is: O, H, N, F, Cl, Br, I, S, rare gases, others. Compounds with several of these elements are put into the last of the applicable sections. For example, nitryl chloride which contains O, N and Cl, is listed in the Cl section. Carbon-containing compounds (including CO and CO_2) are sorted somewhat arbitrarily by increasing chain length and complexity. Hetero atoms (O, N, F, Cl, Br, I, S, P, etc.) are sorted in the same order as for inorganic compounds. The table contains the following groups of species:

Inorganic species **11**
Oxygen (O) 11
Hydrogen (H) 11
Nitrogen (N) 12
Fluorine (F) 15
Chlorine (Cl) 15
Bromine (Br) 17
Iodine (I) 18
Sulfur (S) 18
Rare gases (He, Ne, Ar, Kr, Xe, Rn) 19
Other elements (B, Se, P, As, Hg) 21

Hydrocarbons (C, H) **22**
Alkanes 22
Cycloalkanes 41
Aliphatic alkenes and cycloalkenes 45
Aliphatic alkynes 52
Mononuclear aromatics 55
Terpenes and terpenoids 70
Polynuclear aromatics 73

Organic species with oxygen (O) **87**
Carbon oxides 87
Alcohols (ROH) 88
Polyols ($R(OH)_n$) 120
Peroxides (ROOH) and peroxy radicals (ROO) . . 125
Aldehydes (RCHO) 126
Ketones (RCOR) 134
Carboxylic acids (RCOOH) and peroxy carboxylic acids (RCOOOH) 146
Esters (RCOOR) 154
Ethers (ROR) 176
Heterocycles with oxygen 182
Oxidized terpenoids 186
Miscellaneous 187

Organic species with nitrogen (N) **203**
Amines (C, H, N) 203
Heterocycles with nitrogen (C, H, N) 217
Nitriles (C, H, N) 226
Amines, amides, amino acids (C, H, O, N) 229
Heterocycles with oxygen and nitrogen (C, H, O, N) 243
Nitrates ($RONO_2$) 254
Nitriles with oxygen (C, H, O, N) 260
Nitro compounds (RNO_2) 261

Organic species with fluorine (F) **273**
Fluorine (F) 273

Organic species with chlorine (Cl) **290**
Chlorocarbons (C, H, Cl) 290
Polychlorinated biphenyls (PCBs) 331
Oxygenated chlorocarbons (C, H, O, Cl) 370
Polychlorinated diphenyl ethers (PCDEs) 388
Polychlorinated dibenzofuranes (PCDFs) 396
Polychlorinated dibenzo-*p*-dioxins (PCDDs) 408
Chlorocarbons with nitrogen (C, H, O, N, Cl) . . . 416
Chlorofluorocarbons (C, H, O, N, F, Cl) 438

Organic species with bromine (Br) **449**
Bromocarbons (C, H, O, N, Br) 449
Polybrominated diphenyl ethers (PBDEs) 464
Bromine, chlorine and fluorine (C, H, N, O, F, Cl, Br) 468

Organic species with iodine (I) **475**
Iodocarbons (C, H, O, Cl, I) 476

Organic species with sulfur (S) **479**
Sulfur (C, H, O, N, Cl, S) 479

Organic species with phosphorus (P) **511**
Phosphorus (C, H, O, N, Cl, Br, S, P) 511

Organic species with other elements **526**
Sodium (Na) 526
Aluminum (Al) 527
Silicon (Si) 527
Zinc (Zn) 530
Arsenic (Sn) 530
Selenium (Se) 530
Tin (Sn) 530
Mercury (Hg) 531
Lead (Pb) 533

The first column of the table shows the systematic name, the chemical formula, trivial names (if any), and the CAS registry number (in square brackets).

The column labeled "H^{cp}" contains the Henry's law solubility constants as defined in Eq. (1), rounded to two significant digits and given in the unit $\mathrm{mol}/(\mathrm{m}^3\,\mathrm{Pa})$.

The column labeled "$\mathrm{d}\ln H/\mathrm{d}(1/T)$" contains the temperature dependence of the Henry solubility as defined in Eq. (19), rounded to two significant digits and given in the

unit K. If the term $\Delta_{\mathrm{sol}}H$ is temperature-dependent, the value of $\mathrm{d}\ln H/\mathrm{d}(1/T)$ is calculated at $T^{\ominus} = 298.15\,\mathrm{K}$.

For each table entry the column labeled "type" denotes how the Henry's law constant was obtained in the given reference. Literature reviews are usually most reliable, followed by original publications of experimental determinations of H. Other data has to be treated more carefully. The types listed here are roughly ordered by decreasing reliability:

"L" The cited paper is a *literature* review.

"M" Original publication of a *measured* value.

"V" *Vapor* pressure of the pure substance divided by aqueous solubility (sometimes called "VP/AS").

"R" The cited paper presents a *recalculation* of previously published material (e.g. extrapolation to a different temperature or concentration range).

"T" *Thermodynamical* calculation ($\Delta_{\mathrm{sol}}G = -RT\ln H$, see Sander (1999) for details).

"X" The original paper was not available for this study. The data listed here was found in a secondary source.

"C" The paper is a *citation* of a reference which I could not obtain (personal communication, Ph.D. theses, grey literature).

"Q" The value was calculated with the "*quantitative* structure property relationship" (QSPR) or a similar theoretical method, see Sect. 3.2.3.

"E" The value is an *estimate*. Estimates are only listed if no reliable measurements are available for that compound.

"?" The cited paper doesn't clearly state how the value was obtained.

"W" The value is probably wrong, as explained in the note.

In some cases there might be good agreement between different authors. However, if the original work they refer to is not known one has to be careful when evaluating the reliability. It is possible that they were recalculating data from the same source. The similarity in that case would not be due to independent investigations. The table in the pdf of this document has been hyperlinked to the appropriate notes, and to the NIST Chemistry WebBook from the CAS numbers.

The version number of the current compilation is 4.0. Based upon version 3 (still available at http://www.henrys-law.org), the list has been expanded substantially (from 2288 to 17350 constants and from 913 to 4632 species). In addition, all values have been recalculated using a system of Fortran90 modules. Due to different precision and rounding errors, the last digit of the Henry's law constants has changed in a few cases. Also, a few more articles could be obtained from the grey literature (academic publications not formally published). In these cases, the original data are used now instead of those cited by others. In a few cases, this also resulted in slightly different values.

3.2 Further sources of information

3.2.1 Review articles

Several reviews about Henry's law have been published, starting with Markham and Kobe (1941), up to more recent publications such as Wilhelm et al. (1977), Mackay and Shiu (1981), Staudinger and Roberts (1996), Staudinger and Roberts (2001), Fogg and Sangster (2003), and Sander et al. (2011). Practical guidance on the use of Henry's law has been published by Smith and Harvey (2007).

Experimental methods to obtain Henry's law constants as well as indirect (theoretical) methods have been described and compared by several authors. Only a brief summary of some articles is given here. For details, the reader is referred to the original publications: Battino and Clever (1966) [miscellaneous methods, partially of historical interest], Betterton (1992) [head-space method, bubble column method, thermodynamic cycles, calculation from vapor pressure and solubility, linear correlations], Turner et al. (1996) [static methods, mechanical recirculation methods, separate measurement of solubility and pure species vapor pressure, ebulliometry, perturbation chromatography], Staudinger and Roberts (1996) [batch air stripping, concurrent flow technique, Equilibrium Partitioning in Closed Systems (EPICS), calculation via Quantitative Property Property Relationships (QPPR), Quantitative Structure Property Relationships (QSPR), UNIversal quasichemical Functional group Activity Coefficients (UNIFAC)], Brennan et al. (1998) [comparison of predictive methods], Sander (1999) [QPPR, QSPR, thermodynamic calculations], and Fogg and Sangster (2003) [miscellaneous methods].

3.2.2 Internet

On the internet, the following pages provide Henry's law constants:

- The NIST Chemistry WebBook at http://webbook.nist.gov/chemistry.
- The Pesticide Properties Database (PPD) at http://www.ars.usda.gov/Services/docs.htm?docid=14199.
- The Screening Information Datasets (SIDS) of the United Nations Environment Programme (UNEP) at http://www.chem.unep.ch/irptc/sids/OECDSIDS/INDEXCHEMIC.htm provide data sets including Henry's law constants for many species.
- A program to calculate Henry's law constants is available at http://www.epa.gov/opptintr/exposure/pubs/episuitedl.htm.

- Vapor-liquid equilibrium data from the "Dortmund Data Bank" at http://www.ddbst.com/en/EED/VLE/VLEindex.php.

- The GSI chemical properties database at http://www.gsi-net.com/en/publications/gsi-chemical-database.html.

- The Hazardous Substances Data Bank (HSDB), included in the toxnet database at http://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm.

- Effective Henry's law constants calculated by Hodzic et al. (2014) are available at https://www2.acd.ucar.edu/modeling/gecko.

3.2.3 QSPR

Several publications apply the "Quantitative structure property relationship" (QSPR) method (Staudinger and Roberts, 1996) to obtain theoretical predictions for Henry's law constants: Pierotti et al. (1959), Deno and Berkheimer (1960), Nirmalakhandan and Speece (1988b), Dunnivant and Elzerman (1988), Brunner et al. (1990), Sukuzi et al. (1992), Russell et al. (1992), Sukuzi et al. (1992), Brennan et al. (1998), English and Carroll (2001), Dearden and Schüürmann (2003), Yaffe et al. (2003), Kühne et al. (2005), Modarresi et al. (2007), Raventos-Duran et al. (2010).

3.2.4 Salt solutions

Some information about Henry's law constants for salt solutions (Sechenov constants, see Sect. 2.8) can be found in these publications: McDevit and Long (1952) [benzene], Gordon and Thorne (1967a) and Gordon and Thorne (1967b) [naphthalene], Meadows and Spedding (1974) [CO], Zafiriou and McFarland (1980) [NO], Przyjazny et al. (1983) [organic sulfur compounds], Hunter-Smith et al. (1983) [halocarbons], Almeida et al. (1983) [naphthols], Sanemasa et al. (1984) [benzene, alkylbenzenes], Dacey et al. (1984) [dimethyl sulfide], Wisegarver and Cline (1985) [chlorofluorocarbons], Johnson and Harrison (1986) [OCS], Zhou and Mopper (1990) [aldehydes, ketones], Kames and Schurath (1992) [organic nitrates], Benkelberg et al. (1995) [propanone, ethanal, ethane nitrile], De Bruyn et al. (1995b) [organic sulfur compounds], Moore et al. (1995) [halogenated methanes], Dewulf et al. (1995) [halocarbons, aromatics], Wong and Wang (1997) [dimethyl sulfide], Xie et al. (1997) [organic compounds], Peng and Wan (1998) [halocarbons, aromatics], Moore (2000) [halocarbons], Ni et al. (2000) [organic compounds], Bullock and Teja (2003) [methanol], Endo et al. (2012) [alkanals, alkanones, nitroalkanes, alkylbenzenes, fluorinated alcohols, additional compounds with various polar functional groups], Yu and Yu (2013) [theoretical predictions], and Wang et al. (2014) [organic compounds].

4 The electronic supplement

The Supplement contains several files with additional information about the compiled Henry's law constants. It includes a `README` file with a detailed description. Here, only a short summary is given:

- The files `henry_*.f90` are the Fortran 90 code that was used to convert the values from the original publications to the uniform format with the unit $\mathrm{mol}/(\mathrm{m}^3\,\mathrm{Pa})$. The code and the comments in the code can be used to double-check that the conversion was done correctly.

- If the original publications contained measurements at different temperatures, the fortran code often contains all individual data points, not just the regression line that was used to show the temperature dependence in Table 6. In addition, the supplement contains plots showing the data points as well as the regression lines according to Eq. (19).

- If the Henry's law constants are needed in electronic form, it is cumbersome to extract them from the pdf of this article. Therefore, the supplement contains declarations of the Henry's law constants (H^{cp}, H^{cc}, H^{xp}, H^{bp}, K_{H}^{pc}, K_{H}^{px}, K_{H}^{cc}, and α) in Fortran 90 syntax.

5 Summary and outlook

A comprehensive compilation of Henry's law constants has been presented. The collection, which is also available at http://www.henrys-law.org, will be continously maintained, updated and extended in the future. If necessary, errata will also be posted on the web page. In addition to providing a source of information, I hope that this work will help to identify gaps in our current knowledge and stimulate research projects. In particular, it seems that even for some well-known chemicals like HCl, $\mathrm{Br_2}$, and BrCl, there is a large uncertainty in the value of the Henry's law constants. I always welcome information about new measurements of Henry's law constants to be included in the table.

The Supplement related to this article is available online at doi:10.5194/acp-0-1-2015-supplement.

Acknowledgements. Compiling this data set would not have been possible without the help I received. I am especially grateful to Gary Mallard, Stephen R. Heller, and Peter J. Linstrom for looking up many of the CAS registry numbers. The NIST Chemistry WebBook (http://webbook.nist.gov) was also a very useful tool for this task. For valuable discussions, bug reports, and also for pointing out and sending copies of additional references to me, I would like to thank C. Allen, W. Asman, G. Ayers, S. Balaz, M. Barth, J. Beauchamp,

E. Betterton, S. Clegg, N. Couffin, P. J. Crutzen, F. Dentener, A. De Visscher, G. Hart, M. Hiatt, S. H. Hilal, R. Ingham, H. S. S. Ip, D. J. Jacob, H.-W. Jacobi, W. C. Keene, S. Lee, N. Lim, J. Matthijsen, J. Montgomery, R. M. Moore, M. Mozurkewich, F. Müller, E. O'Hare, O. Pahl, S. Pandis, J. Perlinger, J.-M. Régimbal, P. Riveros, E. Saltzman, S. E. Schwartz, W. Y. Shiu, T. A. Staffelbach, J. Staudinger, J. St-Pierre, G. Tyndall, J. Überfeld, C. Verlinde, R. Vogt, P. Warneck, and J. C. Wheeler. The CAS registry number is a registered trademark of the American Chemical Society. The service charges for this open access publication have been covered by the Max Planck Society.

Table 6: Henry's law constants for water as solvent

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
Inorganic species					
Oxygen (O)					
oxygen	1.2×10^{-5}	1700	Warneck and Williams (2012)	L	
O_2	1.3×10^{-5}	1500	Sander et al. (2011)	L	
[7782-44-7]	1.3×10^{-5}	1500	Sander et al. (2006)	L	
	1.3×10^{-5}	1400	Fernández-Prini et al. (2003)	L	1
	1.3×10^{-5}	1500	Battino et al. (1983)	L	
	1.3×10^{-5}	1500	Wilhelm et al. (1977)	L	
	1.3×10^{-5}	1400	Rettich et al. (1981)	M	
	1.3×10^{-5}	1400	Benson et al. (1979)	M	
	1.2×10^{-5}	1800	Carpenter (1966)	M	
	1.3×10^{-5}	1200	Winkler (1891b)	M	2
	1.3×10^{-5}	1500	Battino (1981)	X	3, 4
	1.3×10^{-5}	1500	Battino (1981)	X	5
	1.2×10^{-5}	1700	Dean (1992)	?	6
	1.3×10^{-5}		Seinfeld (1986)	?	7
ozone	1.0×10^{-4}	2800	Sander et al. (2011)	L	
O_3	1.0×10^{-4}	2800	Sander et al. (2006)	L	
[10028-15-6]	1.1×10^{-4}	2400	Warneck (2003)	L	
	1.3×10^{-4}	2000	Wilhelm et al. (1977)	L	
	1.1×10^{-4}	2300	Gershenzon et al. (2001)	M	
	1.2×10^{-4}	1400	Sotelo et al. (1989)	M	
	1.1×10^{-4}	2300	Kosak-Channing and Helz (1983)	M	
			Roth and Sullivan (1981)	M	8
	1.3×10^{-4}	2000	Briner and Perrottet (1939)	M	
	1.1×10^{-4}	2600	Chameides (1984)	T	
	1.0×10^{-6}		Battino (1981)	X	5, 9
	1.2×10^{-4}		Perry and Chilton (1973)	X	10
	9.3×10^{-5}	2500	Seinfeld (1986)	?	7
	9.3×10^{-5}	2500	Hoffmann and Jacob (1984)	?	7
Hydrogen (H)					
hydrogen atom	2.6×10^{-6}		Sander et al. (2011)	L	
H	2.6×10^{-6}		Sander et al. (2006)	L	
[12385-13-6]					
hydrogen	7.8×10^{-6}	530	Fernández-Prini et al. (2003)	L	1
H_2	7.7×10^{-6}	490	Wilhelm et al. (1977)	L	
[1333-74-0]	7.9×10^{-6}	500	Winkler (1891a)	M	
	7.7×10^{-6}		Hine and Weimar (1965)	R	
	7.7×10^{-6}	490	Young (1981a)	X	3
	7.7×10^{-6}	500	Young (1981a)	X	5
	7.7×10^{-6}	640	Dean (1992)	?	6
deuterium	7.9×10^{-6}	780	Young (1981a)	X	5
D_2					
[7782-39-0]					

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
hydroxyl radical	3.8×10^{-1}		Sander et al. (2011)	L	
OH	3.8×10^{-1}		Sander et al. (2006)	L	
[3352-57-6]	2.9×10^{-1}	4300	Hanson et al. (1992)	T	
	3.2×10^{-1}		Mozurkewich (1986)	T	
	2.9×10^{-1}	3100	Berdnikov and Bazhin (1970)	T	11
	2.5×10^{-1}		Lelieveld and Crutzen (1991)	C	
	2.0		Lelieveld and Crutzen (1991)	C	
	8.9×10^{1}		Lelieveld and Crutzen (1991)	C	
	2.5×10^{-1}	5300	Jacob (1986)	C	12
hydroperoxy radical	6.8		Sander et al. (2011)	L	
HO_2	6.8		Sander et al. (2006)	L	
[3170-83-0]	5.7×10^{1}		Régimbal and Mozurkewich (1997)	R	
	3.8×10^{1}	5900	Hanson et al. (1992)	T	
	8.9×10^{1}		Weinstein-Lloyd and Schwartz (1991)	T	
	8.9×10^{1}		Chameides (1984)	T	
	1.2×10^{1}		Schwartz (1984)	T	13
	4.6×10^{1}	4800	Berdnikov and Bazhin (1970)	T	11
		6600	Jacob (1986)	E	14
hydrogen peroxide	9.1×10^{2}	6600	Warneck and Williams (2012)	L	
H_2O_2	8.3×10^{2}	7600	Sander et al. (2011)	L	
[7722-84-1]	7.6×10^{2}	7300	Sander et al. (2006)	L	
	9.8×10^{2}	6100	Fogg and Sangster (2003)	L	15
	1.1×10^{3}	7000	Huang and Chen (2010)	M	
	8.2×10^{2}	7400	O'Sullivan et al. (1996)	M	
	9.9×10^{2}	6300	Lind and Kok (1994)	M	16
			Staffelbach and Kok (1993)	M	17
	8.5×10^{2}	6500	Zhou and Lee (1992)	M	
	6.7×10^{2}	7900	Hwang and Dasgupta (1985)	M	
	1.4×10^{3}		Yoshizumi et al. (1984)	M	9
	9.6×10^{2}	6600	Chameides (1984)	T	
	7.0×10^{2}	7000	Martin and Damschen (1981)	T	
	6.4×10^{1}		Hilal et al. (2008)	Q	
	7.0×10^{2}	7300	Seinfeld (1986)	?	7
	7.0×10^{2}	7300	Hoffmann and Jacob (1984)	?	7
			Pandis and Seinfeld (1989)	W	18
Nitrogen (N)					
nitrogen	6.4×10^{-6}	1600	Warneck and Williams (2012)	L	
N_2	6.4×10^{-6}	1300	Sander et al. (2011)	L	
[7727-37-9]	6.4×10^{-6}	1300	Sander et al. (2006)	L	
	6.5×10^{-6}	1200	Fernández-Prini et al. (2003)	L	1
	6.5×10^{-6}	1200	Battino et al. (1984)	L	
	6.4×10^{-6}	1300	Wilhelm et al. (1977)	L	
	5.4×10^{-6}		Steward et al. (1973)	L	19
	6.6×10^{-6}	1200	Rettich et al. (1984)	M	
	6.5×10^{-6}	1400	Winkler (1891b)	M	2
	6.5×10^{-6}	1200	Battino (1982)	X	5
	6.3×10^{-6}	1600	Dean (1992)	?	6

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
ammonia	5.9×10^{-1}	4200	Sander et al. (2011)	L	
NH_3	5.9×10^{-1}	4200	Sander et al. (2006)	L	
[7664-41-7]	5.8×10^{-1}	4400	Yoo et al. (1986)	L	
	6.0×10^{-1}	4200	Edwards et al. (1978)	L	
	1.0×10^{-1}	1500	Wilhelm et al. (1977)	L	
	2.8×10^{-1}	3200	Shi et al. (1999)	M	
	6.0×10^{-1}	4200	Clegg and Brimblecombe (1989)	M	
	5.5×10^{-1}	4100	Dasgupta and Dong (1986)	M	
	7.7×10^{-1}		Holzwarth et al. (1984)	M	
	7.4×10^{-1}	3700	Hales and Drewes (1979)	M	
	5.6×10^{-1}	4200	Dasgupta and Dong (1986)	T	
	5.7×10^{-1}	4100	Chameides (1984)	T	
	6.1×10^{-1}		Van Krevelen et al. (1949)	X	20
	2.7×10^{-1}	2100	Dean (1992)	?	6
	5.7×10^{-1}		Abraham et al. (1990)	?	
	6.1×10^{-1}	4100	Seinfeld (1986)	?	7
	5.8×10^{-1}	4100	Hoffmann and Jacob (1984)	?	7
	5.2×10^{-1}		Bone et al. (1983)	?	21
hydrazoic acid	1.2×10^{-1}	3800	Sander et al. (2011)	L	22
HN_3	9.8×10^{-2}	3100	Wilhelm et al. (1977)	L	
[7782-79-8]	1.2×10^{-1}	3700	Betterton and Robinson (1997)	M	
	9.9×10^{-2}		Templeton and King (1971)	M	23
hydrazine H_4N_2 [302-01-2]	1.6×10^{1}		HSDB (2015)	V	
dinitrogen monoxide	2.4×10^{-4}	2700	Warneck and Williams (2012)	L	
N_2O	2.4×10^{-4}	2600	Sander et al. (2011)	L	
(nitrous oxide; laughing gas)	2.4×10^{-4}	2600	Sander et al. (2006)	L	
[10024-97-2]	2.4×10^{-4}	2600	Wilhelm et al. (1977)	L	
	1.8×10^{-4}		Steward et al. (1973)	L	19
	2.5×10^{-4}	2700	Weiss and Price (1980)	M	
	2.4×10^{-4}		Joosten and Danckwerts (1972)	M	
	2.4×10^{-4}	2500	Young (1981b)	X	3
	2.4×10^{-4}	2600	Young (1981b)	X	5, 24
		3600	Kühne et al. (2005)	Q	
		2700	Kühne et al. (2005)	?	
	2.4×10^{-4}	2800	Dean (1992)	?	6
	2.5×10^{-4}		Seinfeld (1986)	?	7
	2.5×10^{-4}		Liss and Slater (1974)	?	
nitrogen monoxide	1.9×10^{-5}	1600	Warneck and Williams (2012)	L	
NO	1.9×10^{-5}	1600	Sander et al. (2011)	L	25
(nitric oxide)	1.9×10^{-5}	1600	Sander et al. (2006)	L	26
[10102-43-9]	1.9×10^{-5}	1500	Schwartz and White (1981)	L	
	1.3×10^{-5}		Zafiriou and McFarland (1980)	M	27
	2.3×10^{-5}		Komiyama and Inoue (1980)	M	28
	1.9×10^{-5}	1500	Komiyama and Inoue (1978)	M	
	1.9×10^{-5}	1600	Winkler (1901)	M	
	1.9×10^{-5}	1400	Young (1981b)	X	3, 29
	1.9×10^{-5}	1400	Young (1981b)	X	5
	1.9×10^{-5}	1700	Loomis (1928)	C	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
		1500	Kühne et al. (2005)	Q	
		1600	Kühne et al. (2005)	?	
	1.9×10^{-5}	1700	Dean (1992)	?	6
	1.9×10^{-5}		Seinfeld (1986)	?	7
	1.9×10^{-5}		Andrew and Hanson (1961)	?	
			Wilhelm et al. (1977)	W	30
nitrogen dioxide	9.9×10^{-5}		Warneck and Williams (2012)	L	
NO_2	1.2×10^{-4}	2400	Sander et al. (2011)	L	
[10102-44-0]	1.4×10^{-4}		Sander et al. (2006)	L	
	1.2×10^{-4}		Schwartz and White (1981)	L	
	1.4×10^{-4}		Cheung et al. (2000)	M	
	6.9×10^{-5}		Lee and Schwartz (1981)	M	31
	2.3×10^{-4}		Komiyama and Inoue (1980)	M	28
	1.2×10^{-4}	2500	Chameides (1984)	T	
	3.4×10^{-4}	1800	Berdnikov and Bazhin (1970)	T	11
	9.9×10^{-5}		Pandis and Seinfeld (1989)	?	32
	9.9×10^{-5}		Seinfeld (1986)	?	7
	4.0×10^{-4}		Andrew and Hanson (1961)	?	
nitrogen trioxide	3.8×10^{-4}		Sander et al. (2011)	L	
NO_3	3.8×10^{-4}		Sander et al. (2006)	L	
(nitrate radical)	1.8×10^{-2}		Thomas et al. (1998)	M	
[12033-49-7]	5.9×10^{-3}		Rudich et al. (1996)	M	33
	1.2×10^{-1}	1900	Chameides (1986)	T	
	3.4×10^{-4}	2000	Berdnikov and Bazhin (1970)	T	11
			Jacob (1986)	E	34
			Seinfeld and Pandis (1998)	?	35
dinitrogen trioxide	5.9×10^{-3}		Schwartz and White (1981)	L	
N_2O_3	2.5×10^{-1}		Komiyama and Inoue (1978)	M	
[10544-73-7]					
dinitrogen tetroxide	1.4×10^{-2}		Schwartz and White (1981)	L	
N_2O_4	2.0×10^{-2}		Komiyama and Inoue (1980)	M	28
[10544-72-6]	1.6×10^{-2}	3500	Komiyama and Inoue (1978)	M	
	3.1×10^{-2}		Andrew and Hanson (1961)	M	
	1.3×10^{-2}	1100	Kramers et al. (1961)	M	
dinitrogen pentoxide	2.1×10^{-2}	3400	Fried et al. (1994)	T	36
N_2O_5	∞		Sander and Crutzen (1996)	E	37
(nitric anhydride)	∞		Jacob (1986)	E	37
[10102-03-1]					
hydroxylamine	1.4×10^{3}		HSDB (2015)	Q	38
H_3NO					
[7803-49-8]					
nitrous acid	4.8×10^{-1}	4800	Schwartz and White (1981)	L	
HNO_2	4.7×10^{-1}	4900	Becker et al. (1998)	M	
[7782-77-6]	4.7×10^{-1}	4900	Becker et al. (1996)	M	
	4.8×10^{-1}	4900	Park and Lee (1988)	M	
	3.7×10^{-1}	9000	Komiyama and Inoue (1978)	M	
	4.7×10^{-1}	4700	Martin (1984)	T	
	4.8×10^{-1}	4800	Chameides (1984)	T	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	4.8×10^{-1}		Seinfeld (1986)	?	7
nitric acid	8.8×10^{2}		Durham et al. (1981)	V	
HNO_3	2.1×10^{3}	8700	Lelieveld and Crutzen (1991)	R	39
[7697-37-2]			Clegg and Brimblecombe (1990)	T	40
			Brimblecombe and Clegg (1989)	T	41
			Brimblecombe and Clegg (1988)	T	42
	2.6×10^{4}	8700	Chameides (1984)	T	
	2.1×10^{3}		Schwartz and White (1981)	T	
	2.1×10^{3}		Pandis and Seinfeld (1989)	?	43
	2.1×10^{3}		Seinfeld (1986)	?	7
	3.4×10^{3}	8800	Hoffmann and Jacob (1984)	?	7
pernitric acid	3.9×10^{-1}	8400	Leu and Zhang (1999)	L	
HNO_4	3.9×10^{1}		Amels et al. (1996)	M	
[26404-66-0]	1.2×10^{2}	6900	Régimbal and Mozurkewich (1997)	T	
	1.4×10^{2}		Warneck (1999)	C	
	2.0×10^{2}	0	Jacob et al. (1989)	C	
			Möller and Mauersberger (1992)	E	44
Fluorine (F)					
fluorine atom	2.0×10^{-4}	400	Berdnikov and Bazhin (1970)	T	11
F					
[14762-94-8]					
hydrogen fluoride	1.3×10^{2}		Fredenhagen and Wellmann (1932a)	M	
HF			Brimblecombe and Clegg (1989)	T	45
[7664-39-3]			Brimblecombe and Clegg (1988)	T	42
difluorine monoxide	2.9×10^{-5}		Kruis and May (1962)	C	
F_2O					
[7783-41-7]					
nitrogen trifluoride	7.9×10^{-6}	1900	Sander et al. (2011)	L	
NF_3	7.9×10^{-6}	1900	Wilhelm et al. (1977)	L	
[7783-54-2]	8.2×10^{-6}	1900	Ashton et al. (1968)	M	
dinitrogen tetrafluoride	8.4×10^{-6}	2500	Sander et al. (2011)	L	
N_2F_4	8.4×10^{-6}	2500	Wilhelm et al. (1977)	L	
(tetrafluorohydrazine)					
[10036-47-2]					
Chlorine (Cl)					
chlorine (molecular)	9.2×10^{-4}	2000	Sander et al. (2011)	L	
Cl_2	9.2×10^{-4}	2000	Sander et al. (2006)	L	
[7782-50-5]	9.0×10^{-4}	2500	Wilhelm et al. (1977)	L	
	3.8×10^{-2}	3100	Martikainen et al. (1987)	M	46
	7.5×10^{-4}		Lin and Pehkonen (1998)	R	
	6.1×10^{-4}	3200	Brian et al. (1962)	R	
	6.1×10^{-4}	2800	Wagman et al. (1982)	T	
	9.3×10^{-4}	2100	Young (1983)	X	5
	9.1×10^{-4}		Bartlett and Margerum (1999)	?	7, 47
	9.2×10^{-4}	2300	Dean (1992)	?	6
			Kruis and May (1962)	?	48

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
chlorine atom	2.3×10^{-2}		Sander et al. (2011)	L	
Cl	2.3×10^{-2}		Sander et al. (2006)	L	
[22537-15-1]	2.0×10^{-3}		Mozurkewich (1986)	T	49
	1.5×10^{-4}	1500	Berdnikov and Bazhin (1970)	T	11
hydrogen chloride			Clegg and Brimblecombe (1986)	L	50
HCl	1.5×10^{1}		Chen et al. (1979)	R	
[7647-01-0]			Carslaw et al. (1995)	T	51
			Brimblecombe and Clegg (1989)	T	52
			Brimblecombe and Clegg (1988)	T	42
	1.1×10^{-2}	2300	Marsh and McElroy (1985)	T	
			Wagman et al. (1982)	T	53
	2.0×10^{-1}		Graedel and Goldberg (1983)	C	
			Seinfeld and Pandis (1998)	?	35
	1.9×10^{-1}	600	Dean (1992)	?	6
	2.5×10^{1}		Seinfeld (1986)	?	7
	7.2	2000	Pandis and Seinfeld (1989)	W	54
hypochlorous acid	6.5	5900	Sander et al. (2011)	L	
HOCl	6.5	5900	Sander et al. (2006)	L	
[7790-92-3]	6.5	5900	Huthwelker et al. (1995)	L	
	9.1		Blatchley et al. (1992)	M	9
	4.7	1600	Hanson and Ravishankara (1991)	M	55
	6.0	4900	Holzwarth et al. (1984)	M	56
	2.6	5100	Wagman et al. (1982)	T	
	5.4		Hilal et al. (2008)	Q	
perchloric acid $HClO_4$ [7601-90-3]	9.9×10^{3}		Jaeglé et al. (1996)	E	57
monochlorine monoxide	7.0×10^{-3}		Sander et al. (2011)	L	
ClO	7.0×10^{-3}		Sander et al. (2006)	L	
[14989-30-1]					
dichlorine monoxide	1.7×10^{-1}	1800	Sander et al. (2011)	L	
Cl_2O	1.7×10^{-1}	1800	Sander et al. (2006)	L	
[7791-21-1]	1.7×10^{-1}	1800	Wilhelm et al. (1977)	L	
	1.7×10^{-1}	1700	Young (1983)	X	5
chlorine dioxide	1.0×10^{-2}	3500	Sander et al. (2011)	L	
ClO_2	1.0×10^{-2}	3500	Sander et al. (2006)	L	
[10049-04-4]	1.0×10^{-2}	3300	Wilhelm et al. (1977)	L	
	1.0×10^{-2}	3300	Young (1983)	X	3
	9.9×10^{-3}	3300	Young (1983)	X	5, 24
nitrosyl chloride NOCl [2696-92-6]	$>4.9\times10^{-4}$		Scheer et al. (1997)	M	
nitryl chloride	4.5×10^{-4}		Frenzel et al. (1998)	E	
$ClNO_2$	2.4×10^{-4}		Behnke et al. (1997)	E	58
[13444-90-1]	3.9×10^{-4}		Roberts et al. (2008)	?	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
chlorine nitrate $ClNO_3$ [14545-72-3]	∞		Sander and Crutzen (1996)	E	37
chloramine NH_2Cl (chloramide) [10599-90-3]	8.6×10^{-1} 8.6×10^{-1} 9.2×10^{-1}	6000 6000 4800	Sander et al. (2011) Sander et al. (2006) Holzwarth et al. (1984)	L L M	
dichloroamine $NHCl_2$ (chlorimide) [3400-09-7]	2.9×10^{-1} 2.9×10^{-1} 2.8×10^{-1}	4200 4200 4200	Sander et al. (2011) Sander et al. (2006) Holzwarth et al. (1984)	L L M	
nitrogen trichloride NCl_3 [10025-85-1]	9.9×10^{-4} 9.9×10^{-4} 9.9×10^{-4}	4100 4100 4100	Sander et al. (2011) Sander et al. (2006) Holzwarth et al. (1984)	L L M	
Bromine (Br)					
bromine (molecular) Br_2 [7726-95-6]	7.2×10^{-3} 7.2×10^{-3} 1.8×10^{-2} 6.8×10^{-3} 9.6×10^{-3} 7.0×10^{-3} 7.8×10^{-3} 7.9×10^{-3} 8.3×10^{-3} 7.9×10^{-3} 7.2×10^{-3} 7.6×10^{-3} 7.5×10^{-3}	4400 4400 3600 4100 3800 3600 4100 3900 4000 4100	Sander et al. (2011) Sander et al. (2006) Dubik et al. (1987) Hill et al. (1968) Jenkins and King (1965) Kelley and Tartar (1956) Winkler (1906) Winkler (1899) Fogg and Sangster (2003) Jenkins and King (1965) Wagman et al. (1982) Bartlett and Margerum (1999) Dean (1992)	L L M M M M M M V R T ? ?	 59 9 7, 47 6
bromine atom Br [10097-32-2]	1.2×10^{-2} 3.4×10^{-4}	 1800	Mozurkewich (1986) Berdnikov and Bazhin (1970)	T T	49 11
hydrogen bromide HBr [10035-10-6]	 2.4×10^{-1}	 370	Carslaw et al. (1995) Brimblecombe and Clegg (1989) Brimblecombe and Clegg (1988) Wagman et al. (1982) Chameides and Stelson (1992) Dean (1992)	T T T T ? ?	60 61 42 62 63 6
hypobromous acid $HOBr$ [13517-11-8]	>1.3 >1.3 $>1.9\times10^{1}$ 1.8×10^{-2} 6.0×10^{1} 9.1×10^{-1}	 4000 	Sander et al. (2011) Sander et al. (2006) Blatchley et al. (1992) Mozurkewich (1995) Frenzel et al. (1998) Vogt et al. (1996) Fickert (1998)	L L M T E E W	 9 64 65

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
nitryl bromide $BrNO_2$ [13536-70-4]	3.0×10^{-3}		Frenzel et al. (1998)	E	
bromine nitrate $BrNO_3$ [40423-14-1]	∞		Sander and Crutzen (1996)	E	37
bromine chloride BrCl [13863-41-7]	9.7×10^{-3}	5600	Sander et al. (2011)	L	
	9.7×10^{-3}	5600	Sander et al. (2006)	L	
	$<6.2\times10^{-2}$		Katrib et al. (2001)	M	66
	1.5×10^{-2}		Disselkamp et al. (1999)	M	67
	9.3×10^{-3}	5600	Bartlett and Margerum (1999)	M	
	4.2×10^{-2}	4000	Dubik et al. (1987)	M	59
	1.1×10^{-2}		this work	T	68
	5.8×10^{-3}		Frenzel et al. (1998)	E	
Iodine (I)					
iodine (molecular) I_2 [7553-56-2]	2.8×10^{-2}	4300	Eguchi et al. (1973)	M	
	2.8×10^{-2}	3900	Fogg and Sangster (2003)	V	
	3.0×10^{-2}	4400	Palmer et al. (1985)	R	
	3.1×10^{-2}	4600	Berdnikov and Bazhin (1970)	R	
	3.2×10^{-2}	4800	Wagman et al. (1982)	T	
	1.1×10^{-2}		Thompson and Zafiriou (1983)	C	69
iodine atom I [14362-44-8]	7.9×10^{-4}		Mozurkewich (1986)	T	70
	6.2×10^{-5}	2300	Berdnikov and Bazhin (1970)	T	11
hydrogen iodide HI [10034-85-2]			Brimblecombe and Clegg (1989)	T	71
			Brimblecombe and Clegg (1988)	T	42
			Wagman et al. (1982)	T	72
hypoiodous acid HOI [14332-21-9]	>4.1		Palmer et al. (1985)	C	
			Thompson and Zafiriou (1983)	E	73
iodine chloride ICl [7790-99-0]	1.1		Wagman et al. (1982)	T	
iodine bromide IBr [7789-33-5]	2.4×10^{-1}		Wagman et al. (1982)	T	
Sulfur (S)					
hydrogen sulfide H_2S [7783-06-4]	1.0×10^{-3}	2100	Sander et al. (2011)	L	
	1.0×10^{-3}	2100	Sander et al. (2006)	L	
	1.0×10^{-3}	2000	Fernández-Prini et al. (2003)	L	1
	1.0×10^{-3}	2200	Carroll and Mather (1989)	L	
	1.0×10^{-3}	2000	Yoo et al. (1986)	L	
	1.0×10^{-3}	2100	Edwards et al. (1978)	L	
	1.0×10^{-3}	2100	Wilhelm et al. (1977)	L	
	9.1×10^{-4}	1700	Rinker and Sandall (2000)	M	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	8.6×10^{-4}	2100	De Bruyn et al. (1995b)	M	
	1.1×10^{-3}	2300	Suleimenov and Krupp (1994)	M	
	9.4×10^{-4}	2300	Barrett et al. (1988)	M	
	1.0×10^{-3}	2100	Winkler (1906)	M	
	9.6×10^{-4}	2000	Iliuta and Larachi (2007)	R	
	1.0×10^{-3}		Hine and Weimar (1965)	R	
	1.0×10^{-3}	1900	Fogg and Young (1988)	X	5
	1.0×10^{-3}	2300	Dean (1992)	?	6
			Chapoy et al. (2005)	W	74
sulfur dioxide SO_2 [7446-09-5]	1.3×10^{-2}	2900	Sander et al. (2011)	L	
	1.3×10^{-2}	2900	Sander et al. (2006)	L	
	1.2×10^{-2}	3100	Yoo et al. (1986)	L	
	1.2×10^{-2}	3200	Maahs (1982)	L	
	1.2×10^{-2}	3000	Edwards et al. (1978)	L	
	1.4×10^{-2}	2800	Wilhelm et al. (1977)	L	
	4.0×10^{-1}		St-Pierre et al. (2014)	M	75
	1.2×10^{-2}	3100	Johnstone and Leppla (1934)	M	
	1.1×10^{-2}	1400	Terraglio and Manganelli (1967)	V	
	1.2×10^{-2}	3100	Chameides (1984)	T	
	1.3×10^{-2}	2900	Young (1983)	X	5
	1.2×10^{-2}	3100	Pandis and Seinfeld (1989)	C	
	1.5×10^{-2}	2900	Dean (1992)	?	6
	1.2×10^{-2}	3100	Seinfeld (1986)	?	7
	1.2×10^{-2}	3100	Hoffmann and Jacob (1984)	?	7
sulfur trioxide SO_3 [7446-11-9]	∞		Sander and Crutzen (1996)	E	37
sulfuric acid H_2SO_4 [7664-93-9]			Marti et al. (1997)	M	76
			Ayers et al. (1980)	M	77
			Gmitro and Vermeulen (1964)	M	78
			Clegg et al. (1998)	V	79
	1.3×10^{13}	20000	Hoffmann and Calvert (1985)	T	
	2.9×10^{7}	10000	Ayers (1983)	T	
sulfur hexafluoride SF_6 [2551-62-4]	2.4×10^{-6}	3100	Warneck and Williams (2012)	L	
	2.5×10^{-6}	2100	Fernández-Prini et al. (2003)	L	1
	2.4×10^{-6}	2400	Wilhelm et al. (1977)	L	
	2.4×10^{-6}	2900	Bullister et al. (2002)	M	
	1.4×10^{-6}		Guitart et al. (1989)	M	19
	2.4×10^{-6}		Park et al. (1982)	M	
	2.6×10^{-6}	2400	Ashton et al. (1968)	M	
	2.2×10^{-6}		Giardino et al. (1988)	V	
		3200	Kühne et al. (2005)	Q	
		2800	Kühne et al. (2005)	?	
sulfuryl fluoride SO_2F_2 [2699-79-8]	8.9×10^{-5}	3100	Cady and Misra (1974)	M	
Rare gases (He, Ne, Ar, Kr, Xe, Rn)					

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
helium	3.9×10^{-6}	15	Fernández-Prini et al. (2003)	L	1
He	3.8×10^{-6}	83	Abraham and Matteoli (1988)	L	
[7440-59-7]	3.8×10^{-6}	92	Wilhelm et al. (1977)	L	
	3.9×10^{-6}	69	Krause and Benson (1989)	M	
	3.7×10^{-6}	360	Morrison and Johnstone (1954)	M	
	3.8×10^{-6}	83	Clever (1979a)	X	3, 80
	3.8×10^{-6}	120	Clever (1979a)	X	5, 81
	3.7×10^{-6}	440	Dean (1992)	?	6
	3.8×10^{-6}		Abraham et al. (1990)	?	
neon	4.5×10^{-6}	430	Fernández-Prini et al. (2003)	L	1
Ne	4.4×10^{-6}	470	Abraham and Matteoli (1988)	L	
[7440-01-9]	4.4×10^{-6}	450	Wilhelm et al. (1977)	L	
	4.5×10^{-6}	440	Krause and Benson (1989)	M	
	4.4×10^{-6}	510	Crovetto et al. (1982)	M	
	4.5×10^{-6}	530	Morrison and Johnstone (1954)	M	
	4.5×10^{-6}	470	Clever (1979a)	X	5
	4.5×10^{-6}	640	Dean (1992)	?	6
	4.4×10^{-6}		Abraham et al. (1990)	?	
argon	1.4×10^{-5}	1700	Warneck and Williams (2012)	L	
Ar	1.4×10^{-5}	1400	Fernández-Prini et al. (2003)	L	1
[7440-37-1]	1.4×10^{-5}	1500	Abraham and Matteoli (1988)	L	
	1.4×10^{-5}	1500	Wilhelm et al. (1977)	L	
	1.4×10^{-5}	1600	Rettich et al. (1992)	M	
	1.4×10^{-5}	1400	Krause and Benson (1989)	M	
	1.4×10^{-5}		Park et al. (1982)	M	
	1.4×10^{-5}	1500	Crovetto et al. (1982)	M	
	1.4×10^{-5}	1400	Ashton et al. (1968)	M	
	1.4×10^{-5}	1100	Morrison and Johnstone (1954)	M	
	1.5×10^{-5}	1400	Winkler (1906)	M	
	1.4×10^{-5}	1500	Clever (1980)	X	3
	1.4×10^{-5}	1500	Clever (1980)	X	5
	1.4×10^{-5}	1700	Dean (1992)	?	6
	1.4×10^{-5}		Abraham et al. (1990)	?	
krypton	2.5×10^{-5}	1700	Fernández-Prini et al. (2003)	L	1
Kr	2.5×10^{-5}	1900	Abraham and Matteoli (1988)	L	
[7439-90-9]	2.5×10^{-5}	1900	Wilhelm et al. (1977)	L	
	2.0×10^{-5}		Steward et al. (1973)	L	19
	2.5×10^{-5}	1800	Krause and Benson (1989)	M	
	2.5×10^{-5}	1900	Crovetto et al. (1982)	M	
	2.4×10^{-5}	1500	Morrison and Johnstone (1954)	M	
	2.5×10^{-5}	1900	Clever (1979b)	X	3
	2.5×10^{-5}	1900	Clever (1979b)	X	5
	2.5×10^{-5}	2100	Dean (1992)	?	6
	2.5×10^{-5}		Abraham et al. (1990)	?	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
xenon	4.4×10^{-5}	2200	Fernández-Prini et al. (2003)	L	1
Xe	4.3×10^{-5}	2300	Abraham and Matteoli (1988)	L	
[7440-63-3]	4.2×10^{-5}	2200	Wilhelm et al. (1977)	L	
	3.3×10^{-5}		Steward et al. (1973)	L	19
	4.3×10^{-5}	2300	Krause and Benson (1989)	M	
	4.2×10^{-5}	2400	Crovetto et al. (1982)	M	
	4.3×10^{-5}	1900	Morrison and Johnstone (1954)	M	
	4.3×10^{-5}	2300	Clever (1979b)	X	5
	4.9×10^{-5}	2500	Dean (1992)	?	6
	4.3×10^{-5}		Abraham et al. (1990)	?	
radon	9.1×10^{-5}	2900	Abraham and Matteoli (1988)	L	
Rn	9.2×10^{-5}	2600	Wilhelm et al. (1977)	L	
[10043-92-2]	9.3×10^{-5}	2600	Clever (1979b)	X	3
	9.2×10^{-5}	2600	Lide and Frederikse (1995)	?	82
	8.3×10^{-5}	3200	Dean (1992)	?	6
	9.1×10^{-5}		Abraham et al. (1990)	?	
Other elements (B, Se, P, As, Hg)					
boric acid H_3BO_3 [10043-35-3]	3.8×10^{6}		HSDB (2015)	V	
selenium hydride	8.3×10^{-4}	1900	Wilhelm et al. (1977)	L	
H_2Se	8.1×10^{-4}	1700	Fogg and Young (1988)	X	5
[7783-07-5]					
phosphorus trihydride	8.1×10^{-5}	2000	Wilhelm et al. (1977)	L	
PH_3	5.9×10^{-5}	3000	Fu et al. (2013)	M	83
(phosphine) [7803-51-2]					
arsenic hydride AsH_3 (arsine) [7784-42-1]	8.8×10^{-5}	2100	Wilhelm et al. (1977)	L	
mercury	1.1×10^{-3}	4800	Clever et al. (1985)	L	
Hg	1.3×10^{-3}	2700	Andersson et al. (2008)	M	
[7439-97-6]	1.3×10^{-3}	2500	Sanemasa (1975)	M	
	8.7×10^{-4}		Mackay and Leinonen (1975)	V	
	1.1×10^{-3}	5700	Glew and Hames (1971)	V	
	1.2×10^{-3}	2300	Clever (1987)	X	84
	1.2×10^{-3}		Shon et al. (2005)	C	
	1.4×10^{-3}		WHO (1990)	C	9
	1.4×10^{-3}		Schroeder and Munthe (1998)	?	9, 7
	1.3×10^{-3}	2700	Schroeder and Munthe (1998)	?	7
	1.3×10^{-3}		Petersen et al. (1998)	?	85
	9.2×10^{-4}		Brimblecombe (1986)	?	28
mercury(II) oxide	3.2×10^{4}		Shon et al. (2005)	?	86
HgO	2.7×10^{10}		Schroeder and Munthe (1998)	?	7
[21908-53-2]	1.4×10^{4}		Petersen et al. (1998)	?	85

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
mercury dihydroxide	1.3×10^{2}	4200	WHO (1990)	C	
$Hg(OH)_2$	1.3×10^{2}	4200	Lindqvist and Rodhe (1985)	C	
mercury dichloride	1.0×10^{3}		Severit (1997)	M	87
$HgCl_2$	1.6×10^{4}		Abraham et al. (2008)	V	
[7487-94-7]	4.2×10^{4}		Abraham et al. (2008)	V	
	1.3×10^{4}	7400	Kanefke (2008)	R	
	2.4×10^{5}		Shon et al. (2005)	C	
	1.4×10^{4}	5300	WHO (1990)	C	
	1.4×10^{4}	5300	Lindqvist and Rodhe (1985)	C	
	4.2×10^{4}	7400	Abraham et al. (2008)	Q	88
	2.7×10^{4}		Schroeder and Munthe (1998)	?	9, 7
	1.4×10^{4}	9500	Braun and Dransfeld (1989)	?	89
	6.3×10^{2}		Iverfeldt and Persson (1985)	?	90
mercury dibromide	1.2×10^{3}		Abraham et al. (2008)	V	
$HgBr_2$	9.6×10^{2}	7400	Kanefke (2008)	C	
[7789-47-1]	4.4×10^{3}	7100	Abraham et al. (2008)	Q	88
	2.7×10^{4}		Hedgecock et al. (2005)	?	91
	5.2×10^{1}		Iverfeldt and Persson (1985)	?	90
mercury diiodide	5.7×10^{1}		Abraham et al. (2008)	V	
HgI_2	2.0×10^{2}	6700	Abraham et al. (2008)	Q	88
[7774-29-0]	1.9		Iverfeldt and Persson (1985)	?	90
Hydrocarbons (C, H)					
Alkanes					
methane	1.4×10^{-5}	1900	Warneck and Williams (2012)	L	
CH_4	1.4×10^{-5}	1600	Sander et al. (2011)	L	
[74-82-8]	1.4×10^{-5}	1600	Sander et al. (2006)	L	
	1.4×10^{-5}	1500	Fernández-Prini et al. (2003)	L	1
	1.4×10^{-5}	1600	Abraham and Matteoli (1988)	L	
	1.5×10^{-5}		Mackay and Shiu (1981)	L	
	1.4×10^{-5}	1700	Wilhelm et al. (1977)	L	
	1.2×10^{-5}	2400	Lekvam and Bishnoi (1997)	M	
	1.3×10^{-5}	1400	Reichl (1995)	M	
	1.2×10^{-5}		Guitart et al. (1989)	M	19
	1.4×10^{-5}	1600	Crovetto et al. (1982)	M	
	1.4×10^{-5}	1600	Rettich et al. (1981)	M	
	1.3×10^{-5}	1900	Winkler (1901)	M	
	1.5×10^{-5}		HSDB (2015)	V	
	1.5×10^{-5}		Meylan and Howard (1991)	V	
	1.5×10^{-5}		Hine and Mookerjee (1975)	V	
	9.2×10^{-5}		Butler and Ramchandani (1935)	V	
	1.4×10^{-5}		Hine and Weimar (1965)	R	
	1.4×10^{-5}	1600	Clever and Young (1987)	X	3
	1.4×10^{-5}	1600	Clever and Young (1987)	X	5, 24
	9.6×10^{-6}		Liss and Slater (1974)	C	
	1.3×10^{-5}		Deno and Berkheimer (1960)	C	
	2.5×10^{-5}		Hilal et al. (2008)	Q	
		2300	Kühne et al. (2005)	Q	
	1.6×10^{-5}		Nirmalakhandan et al. (1997)	Q	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	2.4×10^{-5}		Meylan and Howard (1991)	Q	
		1700	Kühne et al. (2005)	?	
	1.6×10^{-5}		Yaws (1999)	?	
	1.3×10^{-5}	1900	Dean (1992)	?	6
	1.5×10^{-5}		Yaws and Yang (1992)	?	92
	1.4×10^{-5}		Abraham et al. (1990)	?	
ethane C_2H_6 [74-84-0]	1.9×10^{-5}	2400	Sander et al. (2011)	L	
	1.9×10^{-5}	2400	Sander et al. (2006)	L	
	1.9×10^{-5}	2400	Fernández-Prini et al. (2003)	L	1
	1.9×10^{-5}	2300	Abraham and Matteoli (1988)	L	
	2.0×10^{-5}		Mackay and Shiu (1981)	L	
	1.8×10^{-5}	2400	Wilhelm et al. (1977)	L	
	2.0×10^{-5}	2200	Reichl (1995)	M	
	1.3×10^{-5}		Guitart et al. (1989)	M	19
	1.9×10^{-5}	2300	Rettich et al. (1981)	M	
	1.9×10^{-5}	2700	Winkler (1901)	M	
	2.0×10^{-5}		HSDB (2015)	V	
	2.0×10^{-5}		Hine and Mookerjee (1975)	V	
	1.0×10^{-4}		Butler and Ramchandani (1935)	V	
	1.9×10^{-5}	2300	Hayduk (1982)	X	3
	1.9×10^{-5}	2300	Hayduk (1982)	X	5
	1.8×10^{-5}		Deno and Berkheimer (1960)	C	
	2.0×10^{-5}		Hilal et al. (2008)	Q	
		2600	Kühne et al. (2005)	Q	
	2.2×10^{-5}		Nirmalakhandan and Speece (1988a)	Q	
	1.1×10^{-5}		Irmann (1965)	Q	
		2500	Kühne et al. (2005)	?	
	1.8×10^{-5}	2800	Dean (1992)	?	6
	2.0×10^{-5}		Yaws and Yang (1992)	?	92
	1.9×10^{-5}		Abraham et al. (1990)	?	
propane C_3H_8 [74-98-6]	1.5×10^{-5}	2700	Sander et al. (2011)	L	
	1.5×10^{-5}	2700	Sander et al. (2006)	L	
	1.5×10^{-5}	2800	Abraham and Matteoli (1988)	L	
	1.4×10^{-5}		Mackay and Shiu (1981)	L	
	1.5×10^{-5}	2700	Wilhelm et al. (1977)	L	
	1.6×10^{-5}	2700	Chapoy et al. (2004)	M	
	1.5×10^{-5}	2700	Reichl (1995)	M	
	9.7×10^{-6}		Guitart et al. (1989)	M	19
	1.4×10^{-5}		HSDB (2015)	V	
	1.4×10^{-5}		Hine and Mookerjee (1975)	V	
	1.3×10^{-5}		Irmann (1965)	V	
	1.5×10^{-5}	2700	Hayduk (1986)	X	3, 93
	1.5×10^{-5}	2700	Hayduk (1986)	X	5
	1.4×10^{-5}		Deno and Berkheimer (1960)	C	
	1.4×10^{-5}		Hilal et al. (2008)	Q	
		2900	Kühne et al. (2005)	Q	
	1.6×10^{-5}		Nirmalakhandan and Speece (1988a)	Q	
	1.3×10^{-5}		Irmann (1965)	Q	
		2800	Kühne et al. (2005)	?	
	1.4×10^{-5}		Yaws and Yang (1992)	?	92
	1.5×10^{-5}		Abraham et al. (1990)	?	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
butane	1.2×10^{-5}	3100	Sander et al. (2011)	L	94
C_4H_{10}	1.2×10^{-5}	3100	Sander et al. (2006)	L	95
[106-97-8]	1.3×10^{-5}	3100	Abraham and Matteoli (1988)	L	
	1.0×10^{-5}		Mackay and Shiu (1981)	L	
	1.2×10^{-5}	3100	Wilhelm et al. (1977)	L	
	1.3×10^{-5}	2300	Carroll et al. (1997)	M	
	8.0×10^{-6}		Guitart et al. (1989)	M	19
	1.0×10^{-5}		HSDB (2015)	V	
	1.0×10^{-5}		Mackay et al. (2006a)	V	
	1.0×10^{-5}		Mackay et al. (1993)	V	
	9.6×10^{-6}		Hwang et al. (1992)	V	
	1.1×10^{-5}		Hine and Mookerjee (1975)	V	
	1.2×10^{-5}		Irmann (1965)	V	
	4.8×10^{-5}		Butler and Ramchandani (1935)	V	
	1.2×10^{-5}	3000	Hayduk (1986)	X	3
	1.2×10^{-5}	3100	Hayduk (1986)	X	5
	1.1×10^{-5}		Deno and Berkheimer (1960)	C	
	1.2×10^{-5}		Hilal et al. (2008)	Q	
		3300	Kühne et al. (2005)	Q	
	1.2×10^{-5}		Nirmalakhandan and Speece (1988a)	Q	
	1.2×10^{-5}		Irmann (1965)	Q	
		3300	Kühne et al. (2005)	?	
	1.1×10^{-5}		Yaws and Yang (1992)	?	92
	1.2×10^{-5}		Abraham et al. (1990)	?	
2-methylpropane	9.1×10^{-6}	2700	Sander et al. (2011)	L	96
$HC(CH_3)_3$	9.1×10^{-6}	2700	Sander et al. (2006)	L	97
(isobutane)	8.3×10^{-6}		Mackay and Shiu (1981)	L	
[75-28-5]	8.0×10^{-6}	2700	Wilhelm et al. (1977)	L	
	1.1×10^{-4}	5100	Mohebbi et al. (2012)	M	
	8.3×10^{-6}		HSDB (2015)	V	
	8.3×10^{-6}		Mackay et al. (2006a)	V	
	8.3×10^{-6}		Mackay et al. (1993)	V	
	8.4×10^{-6}		Hine and Mookerjee (1975)	V	
	9.7×10^{-6}		Irmann (1965)	V	
	2.7×10^{-5}	2400	Hayduk (1986)	X	3, 98
	9.2×10^{-6}	2700	Hayduk (1986)	X	5
	5.6×10^{-6}		Hilal et al. (2008)	Q	
		3300	Kühne et al. (2005)	Q	
	1.0×10^{-5}		Nirmalakhandan and Speece (1988a)	Q	
	1.1×10^{-5}		Irmann (1965)	Q	
		2900	Kühne et al. (2005)	?	
	8.5×10^{-6}		Yaws and Yang (1992)	?	92
	8.0×10^{-6}		Abraham et al. (1990)	?	
	7.9×10^{-6}		Abraham (1979)	?	
pentane	8.0×10^{-6}	3400	Abraham and Matteoli (1988)	L	
C_5H_{12}	8.0×10^{-6}		Mackay and Shiu (1981)	L	
[109-66-0]	1.1×10^{-5}	2300	Jou and Mather (2000)	M	99
	8.2×10^{-6}	3600	Jönsson et al. (1982)	M	
	7.8×10^{-6}		Rytting et al. (1978)	M	
	7.8×10^{-6}		Mackay et al. (2006a)	V	
	7.8×10^{-6}		Mackay et al. (1993)	V	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	8.3×10^{-6}		Eastcott et al. (1988)	V	
	7.8×10^{-6}		Amoore and Buttery (1978)	V	
	7.9×10^{-6}		Hine and Mookerjee (1975)	V	
		3000	Gill et al. (1976)	T	100
	9.9×10^{-6}		Hilal et al. (2008)	Q	
		3600	Kühne et al. (2005)	Q	
	9.9×10^{-6}		Nirmalakhandan and Speece (1988a)	Q	
		4200	Kühne et al. (2005)	?	
	7.8×10^{-6}		Yaws and Yang (1992)	?	92
	8.0×10^{-6}		Abraham et al. (1990)	?	
2-methylbutane C_5H_{12} (isopentane) [78-78-4]	7.2×10^{-6}		Mackay and Shiu (1981)	L	
	7.0×10^{-6}		HSDB (2015)	V	
	7.2×10^{-6}		Mackay et al. (2006a)	V	
	2.1×10^{-6}		Mackay et al. (1993)	V	
	7.2×10^{-6}		Eastcott et al. (1988)	V	
	7.2×10^{-6}		Cabani et al. (1981)	V	
	6.4×10^{-6}		Hilal et al. (2008)	Q	
	8.4×10^{-6}		Nirmalakhandan et al. (1997)	Q	
	7.2×10^{-6}		Yaws and Yang (1992)	?	92
dimethylpropane $C(CH_3)_4$ (neopentane) [463-82-1]	2.7×10^{-6}		Mackay and Shiu (1981)	L	
	5.9×10^{-6}	3300	Wilhelm et al. (1977)	L	
	2.7×10^{-6}		HSDB (2015)	V	
	4.5×10^{-6}		Mackay et al. (2006a)	V	
	4.5×10^{-6}		Mackay et al. (1993)	V	
	4.5×10^{-6}		Hine and Mookerjee (1975)	V	
	2.5×10^{-6}		Hilal et al. (2008)	Q	
		3600	Kühne et al. (2005)	Q	
	6.2×10^{-6}		Nirmalakhandan and Speece (1988a)	Q	
		3100	Kühne et al. (2005)	?	
	4.7×10^{-6}		Yaws and Yang (1992)	?	92
	5.8×10^{-6}		Abraham et al. (1990)	?	
	5.9×10^{-6}		Abraham (1979)	?	
hexane C_6H_{14} [110-54-3]	6.1×10^{-6}	3800	Abraham and Matteoli (1988)	L	
	5.9×10^{-6}		Mackay and Shiu (1981)	L	
	6.1×10^{-6}		Ryu and Park (1999)	M	
	7.4×10^{-6}		Park et al. (1997)	M	101
	2.4×10^{-4}	8700	Kolb et al. (1992)	M	102
	6.7×10^{-6}		Guitart et al. (1989)	M	19
	9.9×10^{-6}	7500	Ashworth et al. (1988)	M	103
	6.7×10^{-6}	4200	Tsonopoulos and Wilson (1983)	M	
	5.9×10^{-6}	4000	Jönsson et al. (1982)	M	
	5.4×10^{-6}		Rytting et al. (1978)	M	
	5.5×10^{-6}		HSDB (2015)	V	
	5.5×10^{-6}		Mackay et al. (2006a)	V	
	5.5×10^{-6}		Mackay et al. (1993)	V	
	5.5×10^{-6}		Hwang et al. (1992)	V	
	7.1×10^{-6}		Eastcott et al. (1988)	V	
	6.1×10^{-6}		Cabani et al. (1981)	V	
	5.4×10^{-6}		Hine and Mookerjee (1975)	V	
		3800	Gill et al. (1976)	T	100
	7.7×10^{-6}		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
		4000	Kühne et al. (2005)	Q	
	7.9×10^{-6}		Nirmalakhandan and Speece (1988a)	Q	
		4100	Kühne et al. (2005)	?	
	7.6×10^{-6}		Yaws and Yang (1992)	?	92
	6.1×10^{-6}		Abraham et al. (1990)	?	
2-methylpentane	5.9×10^{-6}		Mackay and Shiu (1981)	L	
C_6H_{14}	1.3×10^{-5}	960	Ashworth et al. (1988)	M	103
(isohexane)	5.8×10^{-6}		HSDB (2015)	V	
[107-83-5]	5.7×10^{-6}		Mackay et al. (2006a)	V	
	5.7×10^{-6}		Mackay et al. (1993)	V	
	5.7×10^{-6}		Eastcott et al. (1988)	V	
	5.7×10^{-6}		Hine and Mookerjee (1975)	V	
			Staudinger and Roberts (1996)	R	104
	6.2×10^{-6}		Hilal et al. (2008)	C	
	4.8×10^{-6}		Hilal et al. (2008)	Q	
		4000	Kühne et al. (2005)	Q	
	6.7×10^{-6}		Nirmalakhandan and Speece (1988a)	Q	
		4000	Kühne et al. (2005)	?	
	5.7×10^{-6}		Yaws and Yang (1992)	?	92
3-methylpentane	5.8×10^{-6}		Mackay and Shiu (1981)	L	
C_6H_{14}	5.8×10^{-6}		HSDB (2015)	V	
[96-14-0]	5.9×10^{-6}		Mackay et al. (2006a)	V	
	5.9×10^{-6}		Mackay et al. (1993)	V	
	5.9×10^{-6}		Eastcott et al. (1988)	V	
	5.8×10^{-6}		Hine and Mookerjee (1975)	V	
	6.2×10^{-6}		Hilal et al. (2008)	Q	
		4000	Kühne et al. (2005)	Q	
	7.0×10^{-6}		Nirmalakhandan and Speece (1988a)	Q	
		4700	Kühne et al. (2005)	?	
	8.8×10^{-6}		Yaws and Yang (1992)	?	92
2,2-dimethylbutane	5.8×10^{-6}		Mackay and Shiu (1981)	L	
C_6H_{14}	5.8×10^{-6}		HSDB (2015)	V	
[75-83-2]	5.0×10^{-6}		Mackay et al. (2006a)	V	
	5.0×10^{-6}		Mackay et al. (1993)	V	
	5.8×10^{-6}		Eastcott et al. (1988)	V	
	5.1×10^{-6}		Hine and Mookerjee (1975)	V	
	3.4×10^{-6}		Hilal et al. (2008)	Q	
	5.3×10^{-6}		Nirmalakhandan and Speece (1988a)	Q	
	6.5×10^{-6}		Yaws and Yang (1992)	?	92
2,3-dimethylbutane	7.7×10^{-6}		Mackay and Shiu (1981)	L	
C_6H_{14}	8.2×10^{-6}		HSDB (2015)	V	
[79-29-8]	6.9×10^{-6}		Mackay et al. (2006a)	V	
	6.9×10^{-6}		Mackay et al. (1993)	V	
	7.1×10^{-6}		Eastcott et al. (1988)	V	
	5.3×10^{-6}		Hilal et al. (2008)	Q	
		4000	Kühne et al. (2005)	Q	
	5.8×10^{-6}		Nirmalakhandan et al. (1997)	Q	
		4200	Kühne et al. (2005)	?	
	7.6×10^{-6}		Yaws and Yang (1992)	?	92

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
heptane	4.4×10^{-6}	4100	Abraham and Matteoli (1988)	L	
C_7H_{16}	4.3×10^{-6}		Mackay and Shiu (1981)	L	
[142-82-5]	4.5×10^{-6}		Ryu and Park (1999)	M	
	5.5×10^{-6}		Park et al. (1997)	M	101
	1.2×10^{-5}	3700	Hansen et al. (1993)	M	105
	6.0×10^{-6}		Guitart et al. (1989)	M	19
	4.2×10^{-6}	4700	Jönsson et al. (1982)	M	
	4.8×10^{-6}		Rytting et al. (1978)	M	
	5.5×10^{-6}		HSDB (2015)	V	
	4.8×10^{-6}		Mackay et al. (2006a)	V	
	4.8×10^{-6}		Mackay et al. (1993)	V	
	5.0×10^{-6}		Eastcott et al. (1988)	V	
	4.8×10^{-6}		Hine and Mookerjee (1975)	V	
	5.4×10^{-6}		Hilal et al. (2008)	Q	
		4300	Kühne et al. (2005)	Q	
	6.2×10^{-6}		Nirmalakhandan and Speece (1988a)	Q	
		4900	Kühne et al. (2005)	?	
	3.6×10^{-6}		Yaws and Yang (1992)	?	92
	4.4×10^{-6}		Abraham et al. (1990)	?	
2-methylhexane	2.9×10^{-6}		Mackay and Shiu (1981)	L	
C_7H_{16}	1.9×10^{-5}	-3600	Hansen et al. (1993)	M	105, 106
(isoheptane)	2.9×10^{-6}		Mackay et al. (2006a)	V	
[591-76-4]	2.9×10^{-6}		Mackay et al. (1993)	V	
	2.9×10^{-6}		Eastcott et al. (1988)	V	
	3.7×10^{-6}		Hilal et al. (2008)	Q	
	5.2×10^{-6}		Nirmalakhandan et al. (1997)	Q	
	2.9×10^{-6}		Yaws and Yang (1992)	?	92
3-methylhexane	4.2×10^{-6}		Mackay and Shiu (1981)	L	
C_7H_{16}	4.0×10^{-6}		Mackay et al. (2006a)	V	
[589-34-4]	4.0×10^{-6}		Mackay et al. (1993)	V	
	3.2×10^{-6}		Eastcott et al. (1988)	V	
	4.5×10^{-6}		Hilal et al. (2008)	Q	
	5.3×10^{-6}		Nirmalakhandan et al. (1997)	Q	
	3.2×10^{-6}		Yaws and Yang (1992)	?	92
2,2-dimethylpentane	3.1×10^{-6}		Mackay and Shiu (1981)	L	
C_7H_{16}	3.1×10^{-6}		Mackay et al. (2006a)	V	
[590-35-2]	3.1×10^{-6}		Mackay et al. (1993)	V	
	3.1×10^{-6}		Eastcott et al. (1988)	V	
	2.5×10^{-6}		Hilal et al. (2008)	Q	
	4.1×10^{-6}		Nirmalakhandan et al. (1997)	Q	
	3.1×10^{-6}		Yaws and Yang (1992)	?	92
2,3-dimethylpentane	5.7×10^{-6}		Mackay and Shiu (1981)	L	
C_7H_{16}	5.7×10^{-6}		Mackay et al. (1993)	V	
[565-59-3]	5.7×10^{-6}		Eastcott et al. (1988)	V	
	4.8×10^{-6}		Hilal et al. (2008)	Q	
	4.7×10^{-6}		Nirmalakhandan et al. (1997)	Q	
	5.7×10^{-6}		Yaws and Yang (1992)	?	92

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,4-dimethylpentane	3.3×10^{-6}		Mackay and Shiu (1981)	L	
C_7H_{16}	3.1×10^{-6}		Mackay et al. (2006a)	V	
[108-08-7]	3.1×10^{-6}		Mackay et al. (1993)	V	
	3.4×10^{-6}		Eastcott et al. (1988)	V	
	3.1×10^{-6}		Hine and Mookerjee (1975)	V	
	2.2×10^{-6}		Hilal et al. (2008)	Q	
	4.5×10^{-6}		Nirmalakhandan and Speece (1988a)	Q	
	3.3×10^{-6}		Yaws and Yang (1992)	?	92
3,3-dimethylpentane	5.4×10^{-6}		Mackay and Shiu (1981)	L	
C_7H_{16}	5.4×10^{-6}		Mackay et al. (2006a)	V	
[562-49-2]	5.4×10^{-6}		Mackay et al. (1993)	V	
	5.4×10^{-6}		Eastcott et al. (1988)	V	
	4.0×10^{-6}		Hilal et al. (2008)	Q	
		4300	Kühne et al. (2005)	Q	
	4.4×10^{-6}		Nirmalakhandan et al. (1997)	Q	
		3000	Kühne et al. (2005)	?	
	5.3×10^{-6}		Yaws and Yang (1992)	?	92
3-ethylpentane	5.3×10^{-6}		Hilal et al. (2008)	Q	
C_7H_{16}	3.9×10^{-6}		Yaws and Yang (1992)	?	92
[617-78-7]					
2,2,3-trimethylbutane	3.2×10^{-6}		Mackay et al. (2006a)	V	
C_7H_{16}	3.2×10^{-6}		Mackay et al. (1993)	V	
[464-06-2]	3.3×10^{-6}		Hilal et al. (2008)	Q	
	4.1×10^{-6}		Yaws and Yang (1992)	?	92
octane	3.1×10^{-6}	4300	Abraham and Matteoli (1988)	L	
C_8H_{18}	3.3×10^{-6}		Mackay and Shiu (1981)	L	
[111-65-9]	3.4×10^{-6}		Ryu and Park (1999)	M	
	3.3×10^{-6}		Park et al. (1997)	M	101
	3.0×10^{-5}	8000	Hansen et al. (1993)	M	105
	3.1×10^{-6}	4100	Heidman et al. (1985)	M	
	2.9×10^{-6}	5400	Jönsson et al. (1982)	M	
	3.1×10^{-6}		Rytting et al. (1978)	M	
	3.1×10^{-6}		HSDB (2015)	V	
	8.6×10^{-7}		Abraham and Acree (2007)	V	
	3.2×10^{-6}		Mackay et al. (2006a)	V	
	3.8×10^{-6}	4800	Sarraute et al. (2004)	V	
	3.2×10^{-6}		Mackay et al. (1993)	V	
	3.0×10^{-6}		Hwang et al. (1992)	V	
	3.1×10^{-6}		Meylan and Howard (1991)	V	
	3.2×10^{-6}		Eastcott et al. (1988)	V	
	3.1×10^{-6}		Hine and Mookerjee (1975)	V	
	3.1×10^{-6}		Mackay and Leinonen (1975)	V	
	3.9×10^{-6}		Hilal et al. (2008)	Q	
		4700	Kühne et al. (2005)	Q	
	3.3×10^{-6}		Meylan and Howard (1991)	Q	
	5.0×10^{-6}		Nirmalakhandan and Speece (1988a)	Q	
		5400	Kühne et al. (2005)	?	
	2.0×10^{-6}		Yaws and Yang (1992)	?	92
	3.1×10^{-6}		Abraham et al. (1990)	?	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2-methylheptane	2.9×10^{-6}		Mackay et al. (2006a)	V	
C_8H_{18}	2.9×10^{-6}		Mackay et al. (1993)	V	
[592-27-8]	2.7×10^{-6}		Hilal et al. (2008)	Q	
	2.7×10^{-6}		Hoff et al. (1993)	?	7
	2.7×10^{-6}		Yaws and Yang (1992)	?	92
3-methylheptane	2.7×10^{-6}		Mackay and Shiu (1981)	L	
C_8H_{18}	2.7×10^{-6}		Eastcott et al. (1988)	V	
[589-81-1]	3.3×10^{-6}		Hilal et al. (2008)	Q	
	4.2×10^{-6}		Nirmalakhandan et al. (1997)	Q	
	2.7×10^{-6}		Yaws and Yang (1992)	?	92
4-methylheptane	3.0×10^{-6}		Hilal et al. (2008)	Q	
C_8H_{18}	2.7×10^{-6}		Yaws and Yang (1992)	?	92
[589-53-7]					
2,2-dimethylhexane	2.6×10^{-6}	5100	Dohányosová et al. (2004)	M	
C_8H_{18}	1.9×10^{-6}		Hilal et al. (2008)	Q	
[590-73-8]		4700	Kühne et al. (2005)	Q	
		5100	Kühne et al. (2005)	?	
	2.9×10^{-6}		Yaws and Yang (1992)	?	92
2,3-dimethylhexane	3.4×10^{-6}		Hilal et al. (2008)	Q	
C_8H_{18}	2.6×10^{-6}		Yaws and Yang (1992)	?	92
[584-94-1]					
2,4-dimethylhexane	1.9×10^{-6}		Hilal et al. (2008)	Q	
C_8H_{18}	2.8×10^{-6}		Yaws and Yang (1992)	?	92
[589-43-5]					
2,5-dimethylhexane	2.7×10^{-6}	4700	Dohányosová et al. (2004)	M	
C_8H_{18}	1.7×10^{-6}		Hilal et al. (2008)	Q	
[592-13-2]		4700	Kühne et al. (2005)	Q	
		4700	Kühne et al. (2005)	?	
	2.9×10^{-6}		Yaws and Yang (1992)	?	92
3,3-dimethylhexane	2.9×10^{-6}		Hilal et al. (2008)	Q	
C_8H_{18}	2.6×10^{-6}		Yaws and Yang (1992)	?	92
[563-16-6]					
3,4-dimethylhexane	3.8×10^{-6}		Hilal et al. (2008)	Q	
C_8H_{18}	2.4×10^{-6}		Yaws and Yang (1992)	?	92
[583-48-2]					
3-ethylhexane	3.7×10^{-6}		Hilal et al. (2008)	Q	
C_8H_{18}	2.6×10^{-6}		Yaws and Yang (1992)	?	92
[619-99-8]					
2,2,3-trimethylpentane	2.7×10^{-6}		Hilal et al. (2008)	Q	
C_8H_{18}	2.6×10^{-6}		Yaws and Yang (1992)	?	92
[564-02-3]					

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,2,4-trimethylpentane	3.0×10^{-6}		Mackay and Shiu (1981)	L	
C_8H_{18}	4.6×10^{-6}		Guitart et al. (1989)	M	19
(isooctane)	3.3×10^{-6}		Mackay et al. (2006a)	V	
[540-84-1]	3.3×10^{-6}		Mackay et al. (1993)	V	
	3.1×10^{-6}		Eastcott et al. (1988)	V	
	3.3×10^{-6}		Hine and Mookerjee (1975)	V	
	3.2×10^{-6}		Mackay and Leinonen (1975)	V	
	3.3×10^{-6}		Zhang et al. (2010)	Q	107, 108
	1.7×10^{-6}		Zhang et al. (2010)	Q	107, 109
	2.2×10^{-5}		Zhang et al. (2010)	Q	107, 110
	1.6×10^{-5}		Zhang et al. (2010)	Q	107, 111
	1.2×10^{-6}		Hilal et al. (2008)	Q	
		4700	Kühne et al. (2005)	Q	
	2.9×10^{-6}		Nirmalakhandan and Speece (1988a)	Q	
		4000	Kühne et al. (2005)	?	
	2.9×10^{-6}		Yaws and Yang (1992)	?	92
2,3,3-trimethylpentane	3.6×10^{-6}		Hilal et al. (2008)	Q	
C_8H_{18}	2.4×10^{-6}		Yaws and Yang (1992)	?	92
[560-21-4]					
2,3,4-trimethylpentane	5.3×10^{-6}		Mackay and Shiu (1981)	L	
C_8H_{18}			Mackay et al. (2006a)	V	112
[565-75-3]	4.9×10^{-6}		Mackay et al. (1993)	V	
	5.6×10^{-6}		Eastcott et al. (1988)	V	
	3.1×10^{-6}		Hilal et al. (2008)	Q	
		4700	Kühne et al. (2005)	Q	
	3.2×10^{-6}		Nirmalakhandan et al. (1997)	Q	
		4900	Kühne et al. (2005)	?	
	5.6×10^{-6}		Yaws and Yang (1992)	?	92
3-ethyl-2-methylpentane	3.6×10^{-6}		Hilal et al. (2008)	Q	
C_8H_{18}	2.6×10^{-6}		Yaws and Yang (1992)	?	92
[609-26-7]					
3-ethyl-3-methylpentane	4.5×10^{-6}		Hilal et al. (2008)	Q	
C_8H_{18}	2.3×10^{-6}		Yaws and Yang (1992)	?	92
[1067-08-9]					
2,2,3,3-tetramethylbutane	3.4×10^{-6}		Hilal et al. (2008)	Q	
C_8H_{18}	2.6×10^{-6}		Yaws and Yang (1992)	?	92
[594-82-1]					
nonane	2.0×10^{-6}		Mackay and Shiu (1981)	L	
C_9H_{20}	2.2×10^{-6}		Ryu and Park (1999)	M	
[111-84-2]	1.9×10^{-6}		Park et al. (1997)	M	101
	2.3×10^{-5}	200	Ashworth et al. (1988)	M	103
	1.8×10^{-6}	7300	Jönsson et al. (1982)	M	
	2.9×10^{-6}		HSDB (2015)	V	
	3.0×10^{-6}		Mackay et al. (2006a)	V	
	3.0×10^{-6}		Mackay et al. (1993)	V	
	1.7×10^{-6}		Eastcott et al. (1988)	V	
	2.0×10^{-6}		Abraham (1984)	V	
	3.0×10^{-6}		Hilal et al. (2008)	Q	
		5000	Kühne et al. (2005)	Q	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	3.8×10^{-6}		Nirmalakhandan et al. (1997)	Q	
		4100	Kühne et al. (2005)	?	
	1.7×10^{-6}		Yaws and Yang (1992)	?	92
2-methyloctane C_9H_{20} [3221-61-2]	1.9×10^{-6}		Hilal et al. (2008)	Q	
	2.1×10^{-6}		Yaws and Yang (1992)	?	92
3-methyloctane C_9H_{20} [2216-33-3]	2.4×10^{-6}		Hilal et al. (2008)	Q	
	1.9×10^{-6}		Yaws and Yang (1992)	?	92
4-methyloctane C_9H_{20} [2216-34-4]	1.0×10^{-6}		Mackay and Shiu (1981)	L	
	9.9×10^{-7}		Eastcott et al. (1988)	V	
	2.3×10^{-6}		Hilal et al. (2008)	Q	
	9.9×10^{-7}		Yaws and Yang (1992)	?	92
2,3-dimethylheptane C_9H_{20} [3074-71-3]	2.4×10^{-6}		Hilal et al. (2008)	Q	
	1.9×10^{-6}		Yaws and Yang (1992)	?	92
2,2-dimethylheptane C_9H_{20} [1071-26-7]	1.4×10^{-6}		Hilal et al. (2008)	Q	
	2.1×10^{-6}		Yaws and Yang (1992)	?	92
2,4-dimethylheptane C_9H_{20} [2213-23-2]	1.4×10^{-6}		Hilal et al. (2008)	Q	
	2.1×10^{-6}		Yaws and Yang (1992)	?	92
2,5-dimethylheptane C_9H_{20} [2216-30-0]	1.5×10^{-6}		Hilal et al. (2008)	Q	
	2.0×10^{-6}		Yaws and Yang (1992)	?	92
2,6-dimethylheptane C_9H_{20} [1072-05-5]	1.2×10^{-6}		Hilal et al. (2008)	Q	
	2.1×10^{-6}		Yaws and Yang (1992)	?	92
3,3-dimethylheptane C_9H_{20} [4032-86-4]	2.3×10^{-6}		Hilal et al. (2008)	Q	
	1.9×10^{-6}		Yaws and Yang (1992)	?	92
3,4-dimethylheptane C_9H_{20} [922-28-1]	2.6×10^{-6}		Hilal et al. (2008)	Q	
	1.8×10^{-6}		Yaws and Yang (1992)	?	92
3,5-dimethylheptane C_9H_{20} [926-82-9]	1.5×10^{-6}		Hilal et al. (2008)	Q	
	2.0×10^{-6}		Yaws and Yang (1992)	?	92
4,4-dimethylheptane C_9H_{20} [1068-19-5]	2.1×10^{-6}		Hilal et al. (2008)	Q	
	1.9×10^{-6}		Yaws and Yang (1992)	?	92
3-ethylheptane C_9H_{20} [15869-80-4]	2.6×10^{-6}		Hilal et al. (2008)	Q	
	1.9×10^{-6}		Yaws and Yang (1992)	?	92

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
4-ethylheptane	2.5×10^{-6}		Hilal et al. (2008)	Q	
C_9H_{20}	1.9×10^{-6}		Yaws and Yang (1992)	?	92
[2216-32-2]					
2,2,3-trimethylhexane	1.9×10^{-6}		Hilal et al. (2008)	Q	
C_9H_{20}	1.9×10^{-6}		Yaws and Yang (1992)	?	92
[16747-25-4]					
2,2,4-trimethylhexane	1.1×10^{-6}		Hilal et al. (2008)	Q	
C_9H_{20}	2.1×10^{-6}		Yaws and Yang (1992)	?	92
[16747-26-5]					
2,2,5-trimethylhexane	2.9×10^{-6}		Mackay and Shiu (1981)	L	
C_9H_{20}	4.1×10^{-6}		Mackay et al. (2006a)	V	
[3522-94-9]	4.1×10^{-6}		Mackay et al. (1993)	V	
	4.1×10^{-6}		Cabani et al. (1981)	V	
	9.0×10^{-7}		Hilal et al. (2008)	Q	
	2.2×10^{-6}		Nirmalakhandan et al. (1997)	Q	
	1.9×10^{-6}		Yaws and Yang (1992)	?	92
2,3,3-trimethylhexane	2.4×10^{-6}		Hilal et al. (2008)	Q	
C_9H_{20}	1.7×10^{-6}		Yaws and Yang (1992)	?	92
[16747-28-7]					
2,3,4-trimethylhexane	2.6×10^{-6}		Hilal et al. (2008)	Q	
C_9H_{20}	1.8×10^{-6}		Yaws and Yang (1992)	?	92
[921-47-1]					
2,3,5-trimethylhexane	1.4×10^{-6}		Hilal et al. (2008)	Q	
C_9H_{20}	2.0×10^{-6}		Yaws and Yang (1992)	?	92
[1069-53-0]					
2,4,4-trimethylhexane	1.4×10^{-6}		Hilal et al. (2008)	Q	
C_9H_{20}	1.9×10^{-6}		Yaws and Yang (1992)	?	92
[16747-30-1]					
3,3,4-trimethylhexane	2.9×10^{-6}		Hilal et al. (2008)	Q	
C_9H_{20}	1.7×10^{-6}		Yaws and Yang (1992)	?	92
[16747-31-2]					
3-ethyl-2-methylhexane	2.3×10^{-6}		Hilal et al. (2008)	Q	
C_9H_{20}	1.9×10^{-6}		Yaws and Yang (1992)	?	92
[16789-46-1]					
4-ethyl-2-methylhexane	1.5×10^{-6}		Hilal et al. (2008)	Q	
C_9H_{20}	2.0×10^{-6}		Yaws and Yang (1992)	?	92
[3074-75-7]					
3-ethyl-3-methylhexane	3.2×10^{-6}		Hilal et al. (2008)	Q	
C_9H_{20}	1.7×10^{-6}		Yaws and Yang (1992)	?	92
[3074-76-8]					
3-ethyl-4-methylhexane	3.1×10^{-6}		Hilal et al. (2008)	Q	
C_9H_{20}	1.8×10^{-6}		Yaws and Yang (1992)	?	92
[3074-77-9]					

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,2,3,3-tetramethylpentane	3.6×10^{-6}		Hilal et al. (2008)	Q	
C_9H_{20}	1.6×10^{-6}		Yaws and Yang (1992)	?	92
[7154-79-2]					
2,2,3,4-tetramethylpentane	1.9×10^{-6}		Hilal et al. (2008)	Q	
C_9H_{20}	1.7×10^{-6}		Yaws and Yang (1992)	?	92
[1186-53-4]					
2,2,4,4-tetramethylpentane	9.0×10^{-7}		Hilal et al. (2008)	Q	
C_9H_{20}	1.9×10^{-6}		Yaws and Yang (1992)	?	92
[1070-87-7]					
2,3,3,4-tetramethylpentane	2.7×10^{-6}		Hilal et al. (2008)	Q	
C_9H_{20}	1.6×10^{-6}		Yaws and Yang (1992)	?	92
[16747-38-9]					
3-ethyl-2,2-dimethylpentane	1.9×10^{-6}		Hilal et al. (2008)	Q	
C_9H_{20}	1.8×10^{-6}		Yaws and Yang (1992)	?	92
[16747-32-3]					
3-ethyl-2,3-dimethylpentane	3.5×10^{-6}		Hilal et al. (2008)	Q	
C_9H_{20}	1.5×10^{-6}		Yaws and Yang (1992)	?	92
[16747-33-4]					
3-ethyl-2,4-dimethylpentane	1.9×10^{-6}		Hilal et al. (2008)	Q	
C_9H_{20}	1.8×10^{-6}		Yaws and Yang (1992)	?	92
[1068-87-7]					
3,3-diethylpentane		4900	Abraham and Nasehzadeh (1981)	R	
C_9H_{20}	4.1×10^{-6}		Hilal et al. (2008)	Q	
[1067-20-5]	1.5×10^{-6}		Yaws and Yang (1992)	?	92
	9.5×10^{-6}		Abraham et al. (1990)	?	
	9.4×10^{-6}		Abraham (1979)	?	
decane	1.4×10^{-6}		Mackay and Shiu (1981)	L	
$C_{10}H_{22}$	1.9×10^{-6}		HSDB (2015)	V	
[124-18-5]	2.1×10^{-6}		Mackay et al. (2006a)	V	
	2.1×10^{-6}		Mackay et al. (1993)	V	
	2.0×10^{-6}		Hwang et al. (1992)	V	
	2.3×10^{-6}		Eastcott et al. (1988)	V	
	1.9×10^{-6}		Abraham (1984)	V	
	2.2×10^{-6}		Hilal et al. (2008)	Q	
	2.9×10^{-6}		Nirmalakhandan et al. (1997)	Q	
	2.1×10^{-6}		Yaws and Yang (1992)	?	92
2-methylnonane	1.5×10^{-6}		Hilal et al. (2008)	Q	
$C_{10}H_{22}$	1.7×10^{-6}		Yaws and Yang (1992)	?	92
[871-83-0]					
3-methylnonane	1.7×10^{-6}		Hilal et al. (2008)	Q	
$C_{10}H_{22}$	1.7×10^{-6}		Yaws and Yang (1992)	?	92
[5911-04-6]					
4-methylnonane	1.6×10^{-6}		Hilal et al. (2008)	Q	
$C_{10}H_{22}$	1.6×10^{-6}		Yaws and Yang (1992)	?	92
[17301-94-9]					

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
5-methylnonane $C_{10}H_{22}$ [15869-85-9]	1.7×10^{-6} 1.6×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
2,2-dimethyloctane $C_{10}H_{22}$ [15869-87-1]	1.3×10^{-6} 1.7×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
2,3-dimethyloctane $C_{10}H_{22}$ [7146-60-3]	1.7×10^{-6} 1.5×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
2,4-dimethyloctane $C_{10}H_{22}$ [4032-94-4]	1.2×10^{-6} 1.7×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
2,5-dimethyloctane $C_{10}H_{22}$ [15869-89-3]	1.3×10^{-6} 1.6×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
2,6-dimethyloctane $C_{10}H_{22}$ [2051-30-1]	1.2×10^{-6} 1.6×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
2,7-dimethyloctane $C_{10}H_{22}$ [1072-16-8]	1.0×10^{-6} 1.7×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
3,3-dimethyloctane $C_{10}H_{22}$ [4110-44-5]	1.7×10^{-6} 1.5×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
3,4-dimethyloctane $C_{10}H_{22}$ [15869-92-8]	2.0×10^{-6} 1.5×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
3,5-dimethyloctane $C_{10}H_{22}$ [15869-93-9]	1.4×10^{-6} 1.6×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
3,6-dimethyloctane $C_{10}H_{22}$ [15869-94-0]	1.3×10^{-6} 1.6×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
4,4-dimethyloctane $C_{10}H_{22}$ [15869-95-1]	1.5×10^{-6} 1.5×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
4,5-dimethyloctane $C_{10}H_{22}$ [15869-96-2]	2.1×10^{-6} 1.5×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
3-ethyloctane $C_{10}H_{22}$ [5881-17-4]	2.2×10^{-6} 1.6×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
4-ethyloctane $C_{10}H_{22}$ [15869-86-0]	2.4×10^{-6} 1.6×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
2,2,3-trimethylheptane $C_{10}H_{22}$ [52896-92-1]	1.6×10^{-6} 1.4×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
2,2,4-trimethylheptane $C_{10}H_{22}$ [14720-74-2]	1.6×10^{-6}		Yaws and Yang (1992)	?	92
2,2,5-trimethylheptane $C_{10}H_{22}$ [20291-95-6]	1.6×10^{-6}		Yaws and Yang (1992)	?	92
2,2,6-trimethylheptane $C_{10}H_{22}$ [1190-83-6]	1.7×10^{-6}		Yaws and Yang (1992)	?	92
2,3,3-trimethylheptane $C_{10}H_{22}$ [52896-93-2]	1.6×10^{-6} 1.4×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
2,3,4-trimethylheptane $C_{10}H_{22}$ [52896-95-4]	1.6×10^{-6} 1.4×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
2,3,5-trimethylheptane $C_{10}H_{22}$ [20278-85-7]	1.1×10^{-6} 1.4×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
2,3,6-trimethylheptane $C_{10}H_{22}$ [4032-93-3]	1.1×10^{-6} 1.6×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
2,4,4-trimethylheptane $C_{10}H_{22}$ [4032-92-2]	1.1×10^{-6} 1.5×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
2,4,5-trimethylheptane $C_{10}H_{22}$ [20278-84-6]	1.1×10^{-6} 1.5×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
2,4,6-trimethylheptane $C_{10}H_{22}$ [2613-61-8]	7.5×10^{-7} 1.8×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
2,5,5-trimethylheptane $C_{10}H_{22}$ [1189-99-7]	1.1×10^{-6} 1.5×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
3,3,4-trimethylheptane $C_{10}H_{22}$ [20278-87-9]	1.9×10^{-6} 1.3×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
3,3,5-trimethylheptane $C_{10}H_{22}$ [7154-80-5]	1.2×10^{-6} 1.4×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
3,4,4-trimethylheptane $C_{10}H_{22}$ [20278-88-0]	1.9×10^{-6} 1.3×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
3,4,5-trimethylheptane $C_{10}H_{22}$ [20278-89-1]	2.3×10^{-6} 1.4×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
3-ethyl-2-methylheptane $C_{10}H_{22}$ [14676-29-0]	2.0×10^{-6} 1.5×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
4-ethyl-2-methylheptane $C_{10}H_{22}$ [52896-88-5]	1.4×10^{-6} 1.6×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
5-ethyl-2-methylheptane $C_{10}H_{22}$ [13475-78-0]	1.4×10^{-6} 1.6×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
3-ethyl-3-methylheptane $C_{10}H_{22}$ [17302-01-1]	2.2×10^{-6} 1.4×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
4-ethyl-3-methylheptane $C_{10}H_{22}$ [52896-89-6]	2.2×10^{-6} 1.4×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
3-ethyl-5-methylheptane $C_{10}H_{22}$ [52896-90-9]	1.3×10^{-6} 1.6×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
3-ethyl-4-methylheptane $C_{10}H_{22}$ [52896-91-0]	2.2×10^{-6} 1.4×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
4-ethyl-4-methylheptane $C_{10}H_{22}$ [17302-04-4]	2.4×10^{-6} 1.4×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
4-propylheptane $C_{10}H_{22}$ [3178-29-8]	1.6×10^{-6} 1.7×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
4-(1-methylethyl)-heptane $C_{10}H_{22}$ (4-isopropylheptane) [52896-87-4]	2.1×10^{-6} 1.5×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
2,2,3,3-tetramethylhexane $C_{10}H_{22}$ [13475-81-5]	1.8×10^{-6} 1.2×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,2,3,4-tetramethylhexane $C_{10}H_{22}$ [52897-08-2]	1.2×10^{-6} 1.2×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
2,2,3,5-tetramethylhexane $C_{10}H_{22}$ [52897-09-3]	8.4×10^{-7} 1.6×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
2,2,4,4-tetramethylhexane $C_{10}H_{22}$ [51750-65-3]	8.8×10^{-7} 1.1×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
2,2,4,5-tetramethylhexane $C_{10}H_{22}$ [16747-42-5]	8.0×10^{-7} 1.5×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
2,2,5,5-tetramethylhexane $C_{10}H_{22}$ [1071-81-4]	4.6×10^{-7} 1.8×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
2,3,3,4-tetramethylhexane $C_{10}H_{22}$ [52897-10-6]	1.4×10^{-6} 1.2×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
2,3,3,5-tetramethylhexane $C_{10}H_{22}$ [52897-11-7]	9.2×10^{-7} 1.4×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
2,3,4,4-tetramethylhexane $C_{10}H_{22}$ [52897-12-8]	1.3×10^{-6} 1.2×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
2,3,4,5-tetramethylhexane $C_{10}H_{22}$ [52897-15-1]	1.2×10^{-6} 1.4×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
3,3,4,4-tetramethylhexane $C_{10}H_{22}$ [5171-84-6]	2.2×10^{-6} 1.0×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
3-ethyl-2,2-dimethylhexane $C_{10}H_{22}$ [20291-91-2]	1.8×10^{-6} 1.8×10^{-6} 1.4×10^{-6}		Hilal et al. (2008) Hilal et al. (2008) Yaws and Yang (1992)	Q Q ?	 92
4-ethyl-2,2-dimethylhexane $C_{10}H_{22}$ [52896-99-8]	1.1×10^{-6} 1.6×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
3-ethyl-2,3-dimethylhexane $C_{10}H_{22}$ [52897-00-4]	2.0×10^{-6} 1.3×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
4-ethyl-2,3-dimethylhexane $C_{10}H_{22}$ [52897-01-5]	1.6×10^{-6} 1.4×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
3-ethyl-2,4-dimethylhexane $C_{10}H_{22}$ [7220-26-0]	1.6×10^{-6} 1.4×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
4-ethyl-2,4-dimethylhexane $C_{10}H_{22}$ [52897-03-7]	1.3×10^{-6} 1.3×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
3-ethyl-2,5-dimethylhexane $C_{10}H_{22}$ [52897-04-8]	1.1×10^{-6} 1.5×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
4-ethyl-3,3-dimethylhexane $C_{10}H_{22}$ [52897-05-9]	1.9×10^{-6} 1.3×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
3-ethyl-3,4-dimethylhexane $C_{10}H_{22}$ [52897-06-0]	2.2×10^{-6} 1.3×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
3,3-diethylhexane $C_{10}H_{22}$ [17302-02-2]	3.4×10^{-6} 1.3×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
3,4-diethylhexane $C_{10}H_{22}$ [19398-77-7]	1.8×10^{-6} 1.4×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
2-methyl-3-(1-methylethyl)-hexane $C_{10}H_{22}$ (3-isopropyl-2-methylhexane) [62016-13-1]	1.5×10^{-6} 1.1×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
2,2,3,3,4-pentamethylpentane $C_{10}H_{22}$ [16747-44-7]	1.3×10^{-6} 1.0×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
2,2,3,4,4-pentamethylpentane $C_{10}H_{22}$ [16747-45-8]	8.6×10^{-7} 1.0×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
3-ethyl-2,2,3-trimethylpentane $C_{10}H_{22}$ [52897-17-3]	2.1×10^{-6} 1.0×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
3-ethyl-2,2,4-trimethylpentane $C_{10}H_{22}$ [52897-18-4]	1.2×10^{-6} 1.3×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
3-ethyl-2,3,4-trimethylpentane $C_{10}H_{22}$ [52897-19-5]	1.5×10^{-6} 1.1×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
3,3-diethyl-2-methylpentane $C_{10}H_{22}$ [52897-16-2]	2.3×10^{-6} 1.1×10^{-6}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,4-dimethyl-3-(1-methylethyl)-pentane	1.0×10^{-6}		Hilal et al. (2008)	Q	
$C_{10}H_{22}$ (2,4-dimethyl-3-isopropylpentane) [13475-79-1]	1.3×10^{-6}		Yaws and Yang (1992)	?	92
undecane	5.4×10^{-7}		Mackay and Shiu (1981)	L	
$C_{11}H_{24}$	5.2×10^{-6}		HSDB (2015)	V	
[1120-21-4]	4.9×10^{-7}		Mackay et al. (2006a)	V	
	5.4×10^{-6}		Eastcott et al. (1988)	V	
	4.9×10^{-7}		Abraham (1984)	V	
	1.5×10^{-6}		Hilal et al. (2008)	Q	
	5.4×10^{-6}		Yaws and Yang (1992)	?	92
dodecane	1.3×10^{-6}		Mackay and Shiu (1981)	L	
$C_{12}H_{26}$	1.2×10^{-6}		HSDB (2015)	V	
[112-40-3]	1.2×10^{-6}		Mackay et al. (2006a)	V	
	1.3×10^{-6}		Eastcott et al. (1988)	V	
	1.2×10^{-6}		Abraham (1984)	V	
	1.1×10^{-6}		Hilal et al. (2008)	Q	
	1.4×10^{-6}		Yaws and Yang (1992)	?	92
2,2,4,6,6-pentamethylheptane	1.1×10^{-6}		Zhang et al. (2010)	Q	107, 108
$C_{12}H_{26}$	2.3×10^{-7}		Zhang et al. (2010)	Q	107, 109
[13475-82-6]	2.4×10^{-5}		Zhang et al. (2010)	Q	107, 110
	5.1×10^{-6}		Zhang et al. (2010)	Q	107, 111
tridecane	7.9×10^{-7}		Hilal et al. (2008)	Q	
$C_{13}H_{28}$	4.3×10^{-6}		Yaws and Yang (1992)	?	92
[629-50-5]					
tetradecane	1.1×10^{-6}		HSDB (2015)	V	
$C_{14}H_{30}$	2.6×10^{-6}		Eastcott et al. (1988)	V	
[629-59-4]	7.4×10^{-6}		Abraham (1984)	V	
	5.6×10^{-7}		Hilal et al. (2008)	Q	
	8.7×10^{-6}		Yaws and Yang (1992)	?	92
pentadecane	7.6×10^{-7}		HSDB (2015)	V	
$C_{15}H_{32}$	4.0×10^{-7}		Hilal et al. (2008)	Q	
[629-62-9]	2.1×10^{-5}		Yaws and Yang (1992)	?	92
hexadecane	2.6×10^{-6}		Eastcott et al. (1988)	V	
$C_{16}H_{34}$	2.7×10^{-5}		Abraham (1984)	V	
[544-76-3]	2.9×10^{-7}		Hilal et al. (2008)	Q	
	4.3×10^{-5}		Yaws and Yang (1992)	?	92
heptadecane	2.2×10^{-7}		Hilal et al. (2008)	Q	
$C_{17}H_{36}$	1.8×10^{-4}		Yaws and Yang (1992)	?	92
[629-78-7]					
octadecane	1.6×10^{-6}		Eastcott et al. (1988)	V	
$C_{18}H_{38}$	7.8×10^{-4}		Abraham (1984)	V	
[593-45-3]	1.5×10^{-7}		Hilal et al. (2008)	Q	
	1.1×10^{-3}		Yaws and Yang (1992)	?	92

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
nonadecane $C_{19}H_{40}$ [629-92-5]	1.3×10^{-7} 3.4×10^{-3}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
eicosane $C_{20}H_{42}$ [112-95-8]	5.0×10^{-6} 1.4×10^{-2} 9.7×10^{-8} 3.0×10^{-2}		Eastcott et al. (1988) Abraham (1984) Hilal et al. (2008) Yaws and Yang (1992)	V V Q ?	 92
heneicosane $C_{21}H_{44}$ [629-94-7]	7.3×10^{-8}		Hilal et al. (2008)	Q	
docosane $C_{22}H_{46}$ [629-97-0]	5.4×10^{-8}		Hilal et al. (2008)	Q	
tricosane $C_{23}H_{48}$ [638-67-5]	4.1×10^{-8}		Hilal et al. (2008)	Q	
tetracosane $C_{24}H_{50}$ [646-31-1]	3.1×10^{-8}		Hilal et al. (2008)	Q	
pentacosane $C_{25}H_{52}$ [629-99-2]	1.5×10^{-8}		Hilal et al. (2008)	Q	
hexacosane $C_{26}H_{54}$ [630-01-3]	5.0×10^{-5} 1.3×10^{2} 1.1×10^{-8}		Eastcott et al. (1988) Abraham (1984) Hilal et al. (2008)	V V Q	
heptacosane $C_{27}H_{56}$ [593-49-7]	7.7×10^{-9}		Hilal et al. (2008)	Q	
octacosane $C_{28}H_{58}$ [630-02-4]	5.6×10^{-9}		Hilal et al. (2008)	Q	
nonacosane $C_{29}H_{60}$ [630-03-5]	4.0×10^{-9}		Hilal et al. (2008)	Q	
triacontane $C_{30}H_{62}$ [638-68-6]	2.9×10^{-9}		Hilal et al. (2008)	Q	
dotriacontane $C_{32}H_{66}$ [544-85-4]	1.5×10^{-9}		Hilal et al. (2008)	Q	
pentatriacotane $C_{35}H_{72}$ [630-07-9]	5.8×10^{-10}		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
hexatriacontane $C_{36}H_{74}$ [630-06-8]	8.6×10^{8}		Abraham (1984)	V	
octatriacontane $C_{38}H_{78}$ [7194-85-6]	2.2×10^{-10}		Hilal et al. (2008)	Q	
Cycloalkanes					
cyclopropane C_3H_6 [75-19-4]	1.1×10^{-4}	1600	Wilhelm et al. (1977)	L	
	8.1×10^{-5}		Steward et al. (1973)	L	19
	7.8×10^{-5}		Guitart et al. (1989)	M	19
	1.2×10^{-5}		HSDB (2015)	V	
	1.3×10^{-4}		Irmann (1965)	V	
	1.4×10^{-4}		Hilal et al. (2008)	Q	
		2500	Kühne et al. (2005)	Q	
	9.0×10^{-5}		Nirmalakhandan et al. (1997)	Q	
		2200	Kühne et al. (2005)	?	
	1.3×10^{-4}		Yaws and Yang (1992)	?	92, 113
	1.1×10^{-4}		Abraham et al. (1990)	?	
cyclobutane C_4H_8 [287-23-0]	7.0×10^{-5}		HSDB (2015)	Q	38
cyclopentane C_5H_{10} [287-92-3]	5.4×10^{-5}		Mackay and Shiu (1981)	L	
	6.5×10^{-5}	3400	Hansen et al. (1993)	M	105
	5.6×10^{-5}		Mackay et al. (2006a)	V	
	5.2×10^{-5}		Mackay et al. (1993)	V	
	5.5×10^{-5}		Hwang et al. (1992)	V	
	5.4×10^{-5}		Eastcott et al. (1988)	V	
	5.3×10^{-5}		Hine and Mookerjee (1975)	V	
	5.2×10^{-5}		HSDB (2015)	Q	38
	1.1×10^{-4}		Hilal et al. (2008)	Q	
		3200	Kühne et al. (2005)	Q	
	5.7×10^{-5}		Nirmalakhandan and Speece (1988a)	Q	
		4300	Kühne et al. (2005)	?	
	5.2×10^{-5}		Yaws and Yang (1992)	?	92
	5.3×10^{-5}		Abraham et al. (1990)	?	
	5.3×10^{-5}		Abraham (1979)	?	
cyclohexane C_6H_{12} [110-82-7]	5.6×10^{-5}		Mackay and Shiu (1981)	L	
	3.2×10^{-4}	5400	Hiatt (2013)	M	
	8.0×10^{-5}		Helburn et al. (2008)	M	
	5.2×10^{-5}	4500	Dewulf et al. (1999)	M	114
	6.0×10^{-5}		Hansen et al. (1993)	M	115
	5.4×10^{-5}	3800	Kolb et al. (1992)	M	102
	3.4×10^{-5}		Guitart et al. (1989)	M	19
	5.5×10^{-5}	3200	Ashworth et al. (1988)	M	103
	5.4×10^{-5}	3400	Tsonopoulos and Wilson (1983)	M	
	5.4×10^{-5}	3800	Tucker et al. (1981)	M	
	5.3×10^{-5}		Mackay et al. (2006a)	V	
	5.1×10^{-5}		Mackay et al. (1993)	V	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	6.0×10^{-5}		Hwang et al. (1992)	V	
	5.4×10^{-5}		Eastcott et al. (1988)	V	
	5.1×10^{-5}		Hine and Mookerjee (1975)	V	
		4000	Gill et al. (1976)	T	100
	6.2×10^{-5}	710	Goldstein (1982)	X	116
	9.5×10^{-5}		Hilal et al. (2008)	Q	
		3600	Kühne et al. (2005)	Q	
	4.5×10^{-5}		Nirmalakhandan and Speece (1988a)	Q	
		3900	Kühne et al. (2005)	?	
	5.1×10^{-5}		Yaws and Yang (1992)	?	92
	5.1×10^{-5}		Abraham et al. (1990)	?	
	5.1×10^{-5}		Abraham (1979)	?	
cycloheptane C_7H_{14} [291-64-5]	8.2×10^{-5}		Mackay et al. (2006a)	V	
	1.0×10^{-4}		Mackay et al. (1993)	V	
	1.1×10^{-4}		Cabani et al. (1981)	V	
	2.5×10^{-5}		HSDB (2015)	Q	38
	5.1×10^{-5}		Hilal et al. (2008)	Q	
	1.6×10^{-3}		Hoff et al. (1993)	?	7
	1.1×10^{-4}		Yaws and Yang (1992)	?	92
cyclooctane C_8H_{16} [292-64-8]	7.1×10^{-5}	5000	Dohányosová et al. (2004)	M	
	6.9×10^{-5}		Mackay et al. (2006a)	V	
	9.3×10^{-5}		Mackay et al. (1993)	V	
	9.5×10^{-5}		Cabani et al. (1981)	V	
	7.5×10^{-5}		Hilal et al. (2008)	Q	
		4300	Kühne et al. (2005)	Q	
		5000	Kühne et al. (2005)	?	
	9.8×10^{-5}		Hoff et al. (1993)	?	7
	9.5×10^{-5}		Yaws and Yang (1992)	?	92
methylcyclopentane $C_5H_9CH_3$ [96-37-7]	2.7×10^{-5}		Mackay and Shiu (1981)	L	
	2.7×10^{-5}		HSDB (2015)	V	
	2.8×10^{-5}		Mackay et al. (2006a)	V	
	2.7×10^{-5}		Mackay et al. (1993)	V	
	2.7×10^{-5}		Eastcott et al. (1988)	V	
	2.7×10^{-5}		Hine and Mookerjee (1975)	V	
	4.4×10^{-5}		Hilal et al. (2008)	Q	
	3.9×10^{-5}		Nirmalakhandan and Speece (1988a)	Q	
	2.8×10^{-5}		Yaws and Yang (1992)	?	92
methylcyclohexane $C_6H_{11}CH_3$ [108-87-2]	2.5×10^{-5}		Mackay and Shiu (1981)	L	
	3.2×10^{-4}	5300	Hiatt (2013)	M	
	1.5×10^{-4}		Ramachandran et al. (1996)	M	
	9.6×10^{-5}	9400	Hansen et al. (1993)	M	105
	5.0×10^{-6}		Abraham and Acree (2007)	V	
	2.5×10^{-5}		Mackay et al. (2006a)	V	
	2.3×10^{-5}		Mackay et al. (1993)	V	
	2.3×10^{-5}		Meylan and Howard (1991)	V	
	2.6×10^{-5}		Eastcott et al. (1988)	V	
	2.3×10^{-5}		Hine and Mookerjee (1975)	V	
	3.5×10^{-5}		Hilal et al. (2008)	Q	
		3900	Kühne et al. (2005)	Q	
	2.9×10^{-5}		Meylan and Howard (1991)	Q	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	3.1×10^{-5}		Nirmalakhandan and Speece (1988a)	Q	
		3100	Kühne et al. (2005)	?	
	2.3×10^{-5}		Yaws and Yang (1992)	?	92
methylcyclohexane-d14 $C_6D_{11}CD_3$ [10120-28-2]	3.1×10^{-4}	5600	Hiatt (2013)	M	
ethylcyclohexane C_8H_{16} [1678-91-7]	2.1×10^{-5}	4700	Dohányosová et al. (2004)	M	
	3.1×10^{-5}	4600	Heidman et al. (1985)	M	
	7.3×10^{-6}		Abraham and Acree (2007)	V	
	2.3×10^{-5}		Hilal et al. (2008)	Q	
		4300	Kühne et al. (2005)	Q	
		4700	Kühne et al. (2005)	?	
methylcycloheptane C_8H_{16} [4126-78-7]	2.1×10^{-5}		Hilal et al. (2008)	Q	
1,2-dimethylcyclohexane $C_6H_{10}(CH_3)_2$ [583-57-3]	2.1×10^{-5}		Mackay et al. (1993)	V	
	1.4×10^{-5}		Hilal et al. (2008)	Q	
	2.3×10^{-5}		Nirmalakhandan and Speece (1988a)	Q	
cis-1,2-dimethylcyclohexane $C_6H_{10}(CH_3)_2$ [2207-01-4]	2.8×10^{-5}		Mackay and Shiu (1981)	L	
	2.9×10^{-5}	4900	Dohányosová et al. (2004)	M	
	4.6×10^{-6}		Abraham and Acree (2007)	V	
	2.8×10^{-5}		Mackay et al. (2006a)	V	
	2.8×10^{-5}		Meylan and Howard (1991)	V	
	2.8×10^{-5}		Eastcott et al. (1988)	V	
	2.8×10^{-5}		Hine and Mookerjee (1975)	V	
		4300	Kühne et al. (2005)	Q	
	4.3×10^{-5}		Nirmalakhandan et al. (1997)	Q	
	2.2×10^{-5}		Meylan and Howard (1991)	Q	
		4900	Kühne et al. (2005)	?	
	2.8×10^{-5}		Yaws and Yang (1992)	?	92
trans-1,2-dimethylcyclohexane $C_6H_{10}(CH_3)_2$ [6876-23-9]	1.7×10^{-5}	4600	Dohányosová et al. (2004)	M	
	5.7×10^{-6}		Abraham and Acree (2007)	V	
	1.3×10^{-5}		Mackay et al. (1993)	V	
		4300	Kühne et al. (2005)	Q	
		4600	Kühne et al. (2005)	?	
	2.1×10^{-5}		Yaws and Yang (1992)	?	92
			Haynes (2014)	W	117
1,4-dimethylcyclohexane $C_6H_{10}(CH_3)_2$ [589-90-2]	1.5×10^{-5}		Hilal et al. (2008)	Q	
trans-1,4-dimethylcyclohexane $C_6H_{10}(CH_3)_2$ [2207-04-7]	1.1×10^{-5}		Mackay and Shiu (1981)	L	
	1.1×10^{-5}		Mackay et al. (2006a)	V	
	1.1×10^{-5}		Mackay et al. (1993)	V	
	1.1×10^{-5}		Eastcott et al. (1988)	V	
	2.2×10^{-5}		Nirmalakhandan et al. (1997)	Q	
	1.1×10^{-5}		Yaws and Yang (1992)	?	92

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1,1,2-trimethylcyclopentane $C_5H_7(CH_3)_3$ [4259-00-1]	6.9×10^{-6}		Hilal et al. (2008)	Q	
1,1,3-trimethylcyclopentane $C_5H_7(CH_3)_3$ [4516-69-2]	6.3×10^{-6}		Mackay and Shiu (1981)	L	
	6.3×10^{-6}		Mackay et al. (2006a)	V	
	6.3×10^{-6}		Mackay et al. (1993)	V	
	6.3×10^{-6}		Eastcott et al. (1988)	V	
1,1,3-trimethylcyclohexane C_9H_{18} [3073-66-3]	9.5×10^{-6}		Mackay et al. (2006a)	V	
	9.5×10^{-6}		Mackay et al. (1993)	V	
propylcyclopentane $C_5H_9C_3H_7$ [2040-96-2]	1.1×10^{-5}		Mackay and Shiu (1981)	L	
	1.1×10^{-5}		Mackay et al. (2006a)	V	
	1.1×10^{-5}		Mackay et al. (1993)	V	
	1.1×10^{-5}		Eastcott et al. (1988)	V	
	2.0×10^{-5}		Hilal et al. (2008)	Q	
	2.5×10^{-5}		Nirmalakhandan et al. (1997)	Q	
	1.1×10^{-5}		Yaws and Yang (1992)	?	92
pentylcyclopentane $C_5H_9C_5H_{11}$ [3741-00-2]	5.4×10^{-6}		Mackay and Shiu (1981)	L	
	5.4×10^{-6}		Mackay et al. (2006a)	V	
	5.4×10^{-6}		Mackay et al. (1993)	V	
	5.4×10^{-6}		Eastcott et al. (1988)	V	
	9.2×10^{-6}		Hilal et al. (2008)	Q	
	1.6×10^{-5}		Nirmalakhandan et al. (1997)	Q	
	5.4×10^{-6}		Yaws and Yang (1992)	?	92
cyclooctene C_8H_{14} [931-88-4]	2.1×10^{-4}	4400	Dohányosová et al. (2004)	M	
	2.1×10^{-4}		Mackay et al. (2006a)	V	
		4400	Kühne et al. (2005)	Q	
		4400	Kühne et al. (2005)	?	
decahydronaphthalene $C_{10}H_{18}$ (decalin) [91-17-8]	7.2×10^{-5}	4100	Ashworth et al. (1988)	M	103
	2.1×10^{-5}		HSDB (2015)	V	
	6.5×10^{-5}		Hilal et al. (2008)	Q	
		4500	Kühne et al. (2005)	Q	
		4100	Kühne et al. (2005)	?	
octahydro-1H-indene C_9H_{16} [496-10-6]	8.8×10^{-5}		Hilal et al. (2008)	Q	
(Z)-bicyclo[4.4.0]decane $C_{10}H_{18}$ (*cis*-decahydronaphthalene; *cis*-decalin) [493-01-6]	4.3×10^{-4}		Mackay et al. (1993)	V	
(E)-bicyclo[4.4.0]decane $C_{10}H_{18}$ (*trans*-decahydronaphthalene; *trans*-decalin) [493-02-7]	2.7×10^{-4}		Mackay et al. (1993)	V	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,6,6-trimethylbicyclo[3.1.1]heptane $C_{10}H_{18}$ (dihydropinene) [473-55-2]	2.8×10^{-5}		HSDB (2015)	Q	38
1,1'-bicyclohexyl $C_{12}H_{22}$ [92-51-3]	3.1×10^{-5}		Hilal et al. (2008)	Q	
cyclododecane $C_{12}H_{24}$ [294-62-2]	6.4×10^{-6}		HSDB (2015)	Q	38
octahydro-1,1,2,3,3-pentamethyl-1H-indene	9.0×10^{-6}		Zhang et al. (2010)	Q	107, 108
$C_{14}H_{26}$	1.1×10^{-6}		Zhang et al. (2010)	Q	107, 109
[33704-60-8]	6.5×10^{-4}		Zhang et al. (2010)	Q	107, 110
	3.5×10^{-5}		Zhang et al. (2010)	Q	107, 111
1,1':3',1"-tercyclohexane	6.7×10^{-6}		Zhang et al. (2010)	Q	107, 108
$C_{18}H_{32}$	1.5×10^{-5}		Zhang et al. (2010)	Q	107, 109
[1706-50-9]	1.7×10^{-3}		Zhang et al. (2010)	Q	107, 110
	9.0×10^{-5}		Zhang et al. (2010)	Q	107, 111
1,1'-(2-methylpentane-2,4-diyl)dicyclohexane	2.9×10^{-6}		Zhang et al. (2010)	Q	107, 108
$C_{18}H_{34}$	2.1×10^{-6}		Zhang et al. (2010)	Q	107, 109
[38970-72-8]	1.1×10^{-3}		Zhang et al. (2010)	Q	107, 110
	1.9×10^{-5}		Zhang et al. (2010)	Q	107, 111
Aliphatic alkenes and cycloalkenes					
ethene	5.9×10^{-5}	2200	Sander et al. (2011)	L	
C_2H_4	5.9×10^{-5}	2200	Sander et al. (2006)	L	
(ethylene)	4.6×10^{-5}		Mackay and Shiu (1981)	L	
[74-85-1]	4.7×10^{-5}	1800	Wilhelm et al. (1977)	L	
	3.5×10^{-5}		Steward et al. (1973)	L	19
	4.9×10^{-5}	2000	Maaßen (1995)	M	
	4.8×10^{-5}	1900	Reichl (1995)	M	
	4.8×10^{-5}	2300	Winkler (1906)	M	
	4.6×10^{-5}		Hine and Mookerjee (1975)	V	
	4.7×10^{-5}	2000	Hayduk (1994)	X	3
	4.7×10^{-5}		Deno and Berkheimer (1960)	C	
	2.9×10^{-5}		Hilal et al. (2008)	Q	
		2700	Kühne et al. (2005)	Q	
	5.2×10^{-5}		Nirmalakhandan and Speece (1988a)	Q	
		1900	Kühne et al. (2005)	?	
	4.8×10^{-5}	2300	Dean (1992)	?	6
	4.7×10^{-5}		Yaws and Yang (1992)	?	92
	4.6×10^{-5}		Abraham et al. (1990)	?	
	4.8×10^{-5}		Seinfeld (1986)	?	7

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
propene	4.7×10^{-5}		Mackay and Shiu (1981)	L	
C_3H_6	7.3×10^{-5}	3400	Wilhelm et al. (1977)	L	
(propylene)	5.4×10^{-5}	2700	Maaßen (1995)	M	
[115-07-1]	5.5×10^{-5}	2800	Reichl (1995)	M	
	4.7×10^{-5}		Hine and Mookerjee (1975)	V	
	4.4×10^{-5}		Irmann (1965)	V	
	9.2×10^{-5}		Deno and Berkheimer (1960)	C	
	3.4×10^{-5}		Hilal et al. (2008)	Q	
		3100	Kühne et al. (2005)	Q	
	4.1×10^{-5}		Nirmalakhandan and Speece (1988a)	Q	
	4.6×10^{-5}		Irmann (1965)	Q	
		3800	Kühne et al. (2005)	?	
	4.8×10^{-5}		Yaws and Yang (1992)	?	92
	4.3×10^{-5}		Abraham et al. (1990)	?	
1-butene	1.3×10^{-4}	6400	Wilhelm et al. (1977)	L	
C_4H_8	3.9×10^{-5}		Mackay et al. (2006a)	V	
[106-98-9]	3.9×10^{-5}		Mackay et al. (1993)	V	
	3.9×10^{-5}		Hine and Mookerjee (1975)	V	
	4.1×10^{-5}		Irmann (1965)	V	
	3.4×10^{-5}		Hilal et al. (2008)	Q	
	3.4×10^{-5}		Nirmalakhandan and Speece (1988a)	Q	
	4.1×10^{-5}		Irmann (1965)	Q	
	4.0×10^{-5}		Yaws and Yang (1992)	?	92
	3.9×10^{-5}		Abraham et al. (1990)	?	
			Mackay and Shiu (1981)	W	118
2-butene	5.1×10^{-5}		Hilal et al. (2008)	Q	
C_4H_8					
[107-01-7]					
cis-2-butene	5.5×10^{-5}		Irmann (1965)	V	
C_4H_8	5.9×10^{-5}		Irmann (1965)	Q	
[590-18-1]					
trans-2-butene	3.9×10^{-5}		Irmann (1965)	V	
C_4H_8	5.4×10^{-5}		Irmann (1965)	Q	
[624-64-6]					
2-methylpropene	5.6×10^{-5}	3000	Wilhelm et al. (1977)	L	
C_4H_8	4.6×10^{-5}		Mackay et al. (2006a)	V	
(isobutene)	4.6×10^{-5}		Mackay et al. (1993)	V	
[115-11-7]	4.6×10^{-5}		Hine and Mookerjee (1975)	V	
	8.6×10^{-5}		Hilal et al. (2008)	Q	
		3400	Kühne et al. (2005)	Q	
	2.8×10^{-5}		Nirmalakhandan and Speece (1988a)	Q	
		3000	Kühne et al. (2005)	?	
	4.8×10^{-5}		Yaws and Yang (1992)	?	92
			Mackay and Shiu (1981)	W	118

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1-pentene	2.5×10^{-5}		Mackay and Shiu (1981)	L	
C_5H_{10}	2.5×10^{-5}		HSDB (2015)	V	
[109-67-1]	2.5×10^{-5}		Mackay et al. (2006a)	V	
	2.5×10^{-5}		Mackay et al. (1993)	V	
	2.5×10^{-5}		Eastcott et al. (1988)	V	
	1.8×10^{-5}		Amoore and Buttery (1978)	V	
	2.4×10^{-5}		Hine and Mookerjee (1975)	V	
	2.5×10^{-5}		Hilal et al. (2008)	Q	
	2.7×10^{-5}		Nirmalakhandan and Speece (1988a)	Q	
	2.5×10^{-5}		Yaws and Yang (1992)	?	92
	2.4×10^{-5}		Abraham et al. (1990)	?	
2-pentene	4.4×10^{-5}		Eastcott et al. (1988)	V	
C_5H_{10}	3.6×10^{-5}		Hilal et al. (2008)	Q	
[109-68-2]					
cis-2-pentene	4.4×10^{-5}		Mackay and Shiu (1981)	L	
C_5H_{10}	4.5×10^{-5}		HSDB (2015)	Q	38
[627-20-3]	4.4×10^{-5}		Yaws and Yang (1992)	?	92
trans-2-pentene	4.2×10^{-5}		Hine and Mookerjee (1975)	V	
C_5H_{10}	3.1×10^{-5}		HSDB (2015)	Q	38
[646-04-8]	2.7×10^{-5}		Nirmalakhandan and Speece (1988a)	Q	
	4.3×10^{-5}		Yaws and Yang (1992)	?	92
2-methyl-1-butene	2.3×10^{-5}		HSDB (2015)	V	
C_5H_{10}					
[563-46-2]					
2-methyl-2-butene	7.4×10^{-5}		Mackay et al. (2006a)	V	
C_5H_{10}	4.4×10^{-5}		Hine and Mookerjee (1975)	V	
[513-35-9]	7.5×10^{-5}		Hilal et al. (2008)	Q	
	2.3×10^{-5}		Nirmalakhandan and Speece (1988a)	Q	
3-methyl-1-butene	1.8×10^{-5}		Mackay and Shiu (1981)	L	
C_5H_{10}	1.8×10^{-5}		HSDB (2015)	V	
[563-45-1]	1.8×10^{-5}		Mackay et al. (2006a)	V	
	1.8×10^{-5}		Mackay et al. (1993)	V	
	1.8×10^{-5}		Hine and Mookerjee (1975)	V	
	1.5×10^{-5}		Hilal et al. (2008)	Q	
	2.3×10^{-5}		Nirmalakhandan and Speece (1988a)	Q	
	1.9×10^{-5}		Yaws and Yang (1992)	?	92
1-hexene	2.4×10^{-5}		Mackay and Shiu (1981)	L	
C_6H_{12}	2.4×10^{-5}		HSDB (2015)	V	
[592-41-6]	2.4×10^{-5}		Mackay et al. (2006a)	V	
	2.4×10^{-5}		Mackay et al. (1993)	V	
	2.4×10^{-5}		Hwang et al. (1992)	V	
	2.4×10^{-5}		Eastcott et al. (1988)	V	
	2.4×10^{-5}		Hine and Mookerjee (1975)	V	
	1.8×10^{-5}		Hilal et al. (2008)	Q	
		4100	Kühne et al. (2005)	Q	
	2.1×10^{-5}		Nirmalakhandan and Speece (1988a)	Q	
		4000	Kühne et al. (2005)	?	
	3.3×10^{-5}		Yaws and Yang (1992)	?	92

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	2.8×10^{-5}		Abraham et al. (1990)	?	
2-methyl-1-pentene	3.6×10^{-5}		Mackay and Shiu (1981)	L	
C_6H_{12}	3.6×10^{-5}		Mackay et al. (2006a)	V	
[763-29-1]	3.6×10^{-5}		Mackay et al. (1993)	V	
	3.6×10^{-5}		Eastcott et al. (1988)	V	
	3.4×10^{-5}		Cabani et al. (1981)	V	
	2.2×10^{-5}		Hilal et al. (2008)	Q	
	1.9×10^{-5}		Nirmalakhandan et al. (1997)	Q	
	3.5×10^{-5}		Yaws and Yang (1992)	?	92
4-methyl-1-pentene	1.6×10^{-5}		Mackay and Shiu (1981)	L	
C_6H_{12}	1.6×10^{-5}		Mackay et al. (2006a)	V	
[691-37-2]	1.6×10^{-5}		Mackay et al. (1993)	V	
	1.6×10^{-5}		Eastcott et al. (1988)	V	
	1.6×10^{-5}		Hine and Mookerjee (1975)	V	
	1.2×10^{-5}		Hilal et al. (2008)	Q	
	1.8×10^{-5}		Nirmalakhandan and Speece (1988a)	Q	
	1.6×10^{-5}		Yaws and Yang (1992)	?	92
2,3-dimethyl-1-butene C_6H_{12} [563-78-0]	1.7×10^{-5}		Hilal et al. (2008)	Q	
1-heptene	2.3×10^{-5}		HSDB (2015)	V	
C_7H_{14}	2.5×10^{-5}		Mackay et al. (2006a)	V	
[592-76-7]	2.5×10^{-5}		Mackay et al. (1993)	V	
	1.3×10^{-5}		Hilal et al. (2008)	Q	
	1.7×10^{-5}		Nirmalakhandan et al. (1997)	Q	
	2.5×10^{-5}		Yaws and Yang (1992)	?	92
	2.4×10^{-5}		Abraham et al. (1990)	?	
2-heptene C_7H_{14} [592-77-8]	1.7×10^{-5}		Hilal et al. (2008)	Q	
trans-2-heptene	2.4×10^{-5}		Mackay and Shiu (1981)	L	
C_7H_{14}	2.4×10^{-5}		Mackay et al. (1993)	V	
[14686-13-6]	2.4×10^{-5}		Eastcott et al. (1988)	V	
	2.4×10^{-5}		Hine and Mookerjee (1975)	V	
	1.7×10^{-5}		Nirmalakhandan et al. (1997)	Q	
1-octene	1.0×10^{-5}		Mackay and Shiu (1981)	L	
C_8H_{16}	1.6×10^{-5}		HSDB (2015)	V	
[111-66-0]	1.0×10^{-5}		Mackay et al. (2006a)	V	
	1.0×10^{-5}		Mackay et al. (1993)	V	
	1.0×10^{-5}		Hwang et al. (1992)	V	
	1.0×10^{-5}		Meylan and Howard (1991)	V	
	1.0×10^{-5}		Eastcott et al. (1988)	V	
	1.0×10^{-5}		Hine and Mookerjee (1975)	V	
	9.2×10^{-6}		Hilal et al. (2008)	Q	
	1.6×10^{-5}		Meylan and Howard (1991)	Q	
	1.3×10^{-5}		Nirmalakhandan and Speece (1988a)	Q	
	1.6×10^{-5}		Yaws and Yang (1992)	?	92
	1.6×10^{-5}		Abraham et al. (1990)	?	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,4,4-trimethyl-1-pentene C_8H_{16} [107-39-1]	1.3×10^{-5}		HSDB (2015)	Q	38
2,4,4-trimethyl-2-pentene C_8H_{16} [107-40-4]	1.1×10^{-5}		HSDB (2015)	Q	38
3,4,4-trimethyl-2-pentene C_8H_{16} [598-96-9]	1.1×10^{-5}		HSDB (2015)	Q	38
1-nonene C_9H_{18} [124-11-8]	1.2×10^{-5}		Mackay et al. (2006a)	V	
	1.2×10^{-5}		Mackay et al. (1993)	V	
	6.5×10^{-6}		Hilal et al. (2008)	Q	
	1.0×10^{-5}		Nirmalakhandan et al. (1997)	Q	
	1.2×10^{-5}		Yaws and Yang (1992)	?	92
	1.2×10^{-5}		Abraham et al. (1990)	?	
1-decene $C_{10}H_{20}$ [872-05-9]	3.7×10^{-6}		HSDB (2015)	V	
	3.3×10^{-6}		Mackay et al. (1993)	V	
	4.2×10^{-6}		Hilal et al. (2008)	Q	
1-undecene $C_{11}H_{22}$ [821-95-4]	6.7×10^{-6}		HSDB (2015)	Q	38
	2.2×10^{-6}		Hilal et al. (2008)	Q	
1-dodecene $C_{12}H_{24}$ [112-41-4]	2.3×10^{-6}		HSDB (2015)	Q	38
	1.5×10^{-6}		Hilal et al. (2008)	Q	
2,2,4,6,6-pentamethyl-3-heptene $C_{12}H_{24}$ [123-48-8]	3.6×10^{-6}		Zhang et al. (2010)	Q	107, 108
	5.2×10^{-7}		Zhang et al. (2010)	Q	107, 109
	1.8×10^{-5}		Zhang et al. (2010)	Q	107, 110
	1.5×10^{-5}		Zhang et al. (2010)	Q	107, 111
1-tridecene $C_{13}H_{26}$ [2437-56-1]	3.8×10^{-6}		HSDB (2015)	Q	38
1-tetradecene $C_{14}H_{28}$ [1120-36-1]	1.2×10^{-6}		HSDB (2015)	Q	38
1,2-butadiene C_4H_6 [590-19-2]	1.0×10^{-4}		HSDB (2015)	Q	38
	1.1×10^{-4}		Hilal et al. (2008)	Q	
1,3-butadiene C_4H_6 [106-99-0]	1.3×10^{-4}		Mackay and Shiu (1981)	L	
	1.4×10^{-4}	4500	Wilhelm et al. (1977)	L	
	1.4×10^{-4}		Ross and Hudson (1957)	M	
	1.3×10^{-4}		HSDB (2015)	V	
	1.3×10^{-4}		Mackay et al. (2006a)	V	
	3.9×10^{-6}		Lide and Frederikse (1995)	V	
	4.8×10^{-5}		Mackay et al. (1993)	V	
	5.0×10^{-5}		Hwang et al. (1992)	V	
	1.6×10^{-4}		Hine and Mookerjee (1975)	V	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	1.2×10^{-4}		Irmann (1965)	V	
	1.5×10^{-4}		Irmann (1965)	C	
	1.8×10^{-4}		Hilal et al. (2008)	Q	
		3600	Kühne et al. (2005)	Q	
	9.2×10^{-5}		Nirmalakhandan and Speece (1988a)	Q	
		4100	Kühne et al. (2005)	?	
	1.4×10^{-4}		Yaws and Yang (1992)	?	92
2-methyl-1,3-butadiene	1.3×10^{-4}		Mackay and Shiu (1981)	L	
C_5H_8	3.4×10^{-4}	4400	Leng et al. (2013)	M	
(isoprene)	2.9×10^{-4}		Karl et al. (2003)	M	119
[78-79-5]	1.3×10^{-4}		HSDB (2015)	V	
	1.3×10^{-4}		Mackay et al. (2006a)	V	
	1.3×10^{-4}		Copolovici and Niinemets (2005)	V	
	1.3×10^{-4}		Mackay et al. (1993)	V	
	1.3×10^{-4}		Hine and Mookerjee (1975)	V	
	2.7×10^{-4}		Hilal et al. (2008)	Q	
	6.7×10^{-5}		Nirmalakhandan and Speece (1988a)	Q	
	1.3×10^{-4}		Yaws and Yang (1992)	?	92
1,2-pentadiene C_5H_8 [591-95-7]	9.7×10^{-5}		Hilal et al. (2008)	Q	
1,3-pentadiene C_5H_8 [504-60-9]	1.4×10^{-4}		HSDB (2015)	Q	38
(E)-1,3-pentadiene C_5H_8 [2004-70-8]	8.2×10^{-5}		HSDB (2015)	Q	38
1,4-pentadiene	8.3×10^{-5}		Mackay and Shiu (1981)	L	
C_5H_8	8.4×10^{-5}		Mackay et al. (2006a)	V	
[591-93-5]	8.4×10^{-5}		Mackay et al. (1993)	V	
	8.2×10^{-5}		Hine and Mookerjee (1975)	V	
	9.9×10^{-5}		Hilal et al. (2008)	Q	
	7.3×10^{-5}		Nirmalakhandan and Speece (1988a)	Q	
	8.3×10^{-5}		Yaws and Yang (1992)	?	92
2,3-pentadiene C_5H_8 [591-96-8]	1.1×10^{-4}		Hilal et al. (2008)	Q	
1,4-hexadiene C_6H_{10} [592-45-0]	8.4×10^{-5}		HSDB (2015)	Q	38
1,5-hexadiene	6.9×10^{-5}		Mackay et al. (2006a)	V	
C_6H_{10}	6.7×10^{-5}		Hwang et al. (1992)	V	
[592-42-7]	7.3×10^{-5}		Hine and Mookerjee (1975)	V	
	5.8×10^{-5}		Hilal et al. (2008)	Q	
	5.8×10^{-5}		Nirmalakhandan and Speece (1988a)	Q	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,3-dimethyl-1,3-butadiene	2.0×10^{-4}		Mackay et al. (2006a)	V	
C_6H_{10}	2.0×10^{-4}		Mackay et al. (1993)	V	
[513-81-5]	2.0×10^{-4}		Meylan and Howard (1991)	V	
	2.1×10^{-4}		Hine and Mookerjee (1975)	V	
	1.9×10^{-4}		Hilal et al. (2008)	Q	
	5.2×10^{-5}		Meylan and Howard (1991)	Q	
	4.7×10^{-5}		Nirmalakhandan and Speece (1988a)	Q	
1,6-heptadiene	4.6×10^{-5}		Hilal et al. (2008)	Q	
C_7H_{12}					
[3070-53-9]					
1-methylcyclopropene	2.5×10^{-4}		HSDB (2015)	Q	38
C_4H_6					
[3100-04-7]					
cyclopentene	2.3×10^{-4}	2200	Bakierowska and Trzeszczyński (2003)	M	
C_5H_8	1.5×10^{-4}		Mackay et al. (2006a)	V	
[142-29-0]	1.5×10^{-4}		Mackay et al. (1993)	V	
	1.6×10^{-4}		Hwang et al. (1992)	V	
	1.6×10^{-4}		Hine and Mookerjee (1975)	V	
	3.1×10^{-4}		Hilal et al. (2008)	Q	
		3400	Kühne et al. (2005)	Q	
	1.6×10^{-4}		Nirmalakhandan and Speece (1988a)	Q	
		2200	Kühne et al. (2005)	?	
	1.5×10^{-4}		Yaws and Yang (1992)	?	92
cyclohexene	3.3×10^{-4}	2000	Bakierowska and Trzeszczyński (2003)	M	
C_6H_{10}	2.5×10^{-4}		Nielsen et al. (1994)	M	
[110-83-8]	2.2×10^{-4}		Mackay et al. (2006a)	V	
	2.2×10^{-4}		Mackay et al. (1993)	V	
	2.2×10^{-4}		Hwang et al. (1992)	V	
	2.2×10^{-4}		Hine and Mookerjee (1975)	V	
	2.5×10^{-4}		Hilal et al. (2008)	Q	
		3700	Kühne et al. (2005)	Q	
	1.3×10^{-4}		Nirmalakhandan and Speece (1988a)	Q	
		3600	Kühne et al. (2005)	?	
	2.2×10^{-4}		Yaws and Yang (1992)	?	92
1-methylcyclopentene	2.4×10^{-4}		Hilal et al. (2008)	Q	
C_6H_{10}					
[693-89-0]					
cycloheptene	2.6×10^{-4}		Mackay et al. (2006a)	V	
C_7H_{12}	2.0×10^{-4}		Mackay et al. (1993)	V	
[628-92-2]	1.3×10^{-4}		Hilal et al. (2008)	Q	
1-methylcyclohexene	1.2×10^{-4}		Mackay et al. (2006a)	V	
$C_6H_9CH_3$	1.3×10^{-4}		Hine and Mookerjee (1975)	V	
[591-49-1]	1.9×10^{-4}		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1,1,2,3,3-pentamethyl-2,3,4,5,6,7-hexahydro-1H-indene	2.5×10^{-5}		Zhang et al. (2010)	Q	107, 108
$C_{14}H_{24}$	2.5×10^{-6}		Zhang et al. (2010)	Q	107, 109
[33704-59-5]	1.1×10^{-3}		Zhang et al. (2010)	Q	107, 110
	7.3×10^{-5}		Zhang et al. (2010)	Q	107, 111
1,3-cyclopentadiene	4.7×10^{-4}		HSDB (2015)	V	
C_5H_6	1.2×10^{-3}		Hilal et al. (2008)	Q	
[542-92-7]					
1,3-cyclohexadiene	1.1×10^{-3}		Hilal et al. (2008)	Q	
C_6H_8					
[592-57-4]					
1,4-cyclohexadiene	1.1×10^{-3}		Mackay et al. (2006a)	V	
C_6H_8	9.7×10^{-4}		Mackay et al. (1993)	V	
(1,4-dihydrobenzene)	1.0×10^{-3}		Hilal et al. (2008)	C	
[628-41-1]	8.0×10^{-4}		Hilal et al. (2008)	Q	
1,3-cycloheptadiene	6.2×10^{-4}		Hilal et al. (2008)	Q	
C_7H_{10}					
[4054-38-0]					
1,3,5-cycloheptatriene			Mackay et al. (2006a)	V	112
C_7H_8	2.1×10^{-3}		Mackay et al. (1993)	V	
[544-25-2]	2.1×10^{-3}		Cabani et al. (1981)	V	
	3.8×10^{-3}		Hilal et al. (2008)	Q	
	8.4×10^{-4}		Nirmalakhandan et al. (1997)	Q	
	2.1×10^{-3}		Yaws and Yang (1992)	?	92
1,5-cyclooctadiene	3.8×10^{-4}		Hilal et al. (2008)	Q	
C_8H_{12}					
[111-78-4]					
1-ethenylcyclohexene	7.7×10^{-4}		Hilal et al. (2008)	Q	
C_8H_{12}					
[2622-21-1]					
4-ethenylcyclohexene	2.2×10^{-4}		HSDB (2015)	V	
C_8H_{12}	1.8×10^{-4}		Hilal et al. (2008)	Q	
[100-40-3]					
1,3,5,7-cyclooctatetraene	3.6×10^{-2}		Hilal et al. (2008)	Q	
C_8H_8					
[629-20-9]					
3a,4,7,7a-tetrahydro-4,7-methano-1H-indene	1.6×10^{-4}		HSDB (2015)	Q	38
$C_{10}H_{12}$	2.8×10^{-5}		Hilal et al. (2008)	Q	
(dicyclopentadiene)					
[77-73-6]					
1,5,9-cyclododecatriene	3.3×10^{-4}		HSDB (2015)	Q	38
$C_{12}H_{18}$					
[4904-61-4]					
Aliphatic alkynes					

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
ethyne	4.1×10^{-4}	1700	Sander et al. (2011)	L	
C_2H_2	4.1×10^{-4}	1800	Sander et al. (2006)	L	
(acetylene)	4.1×10^{-4}	1800	Wilhelm et al. (1977)	L	
[74-86-2]	4.1×10^{-4}	2000	Winkler (1906)	M	
	4.5×10^{-4}		HSDB (2015)	V	
	3.9×10^{-4}		Hwang et al. (1992)	V	
	4.1×10^{-4}		Hine and Mookerjee (1975)	V	
	4.1×10^{-4}		Deno and Berkheimer (1960)	C	
	1.4×10^{-3}		Hilal et al. (2008)	Q	
		1800	Kühne et al. (2005)	Q	
	5.8×10^{-4}		Nirmalakhandan and Speece (1988a)	Q	
	5.0×10^{-4}		Irmann (1965)	Q	
		1800	Kühne et al. (2005)	?	
	4.1×10^{-4}	2000	Dean (1992)	?	6
	3.9×10^{-4}		Yaws and Yang (1992)	?	92
	4.1×10^{-4}		Abraham et al. (1990)	?	
propyne	9.0×10^{-4}		Mackay and Shiu (1981)	L	
CH_3CCH	7.7×10^{-4}	2500	Simpson and Lovell (1962)	M	
[74-99-7]	6.7×10^{-4}	2100	Inga and McKetta (1961)	M	
	9.0×10^{-4}		HSDB (2015)	V	
	9.0×10^{-4}		Hine and Mookerjee (1975)	V	
	6.6×10^{-4}		Irmann (1965)	V	
	6.0×10^{-4}		Hilal et al. (2008)	Q	
		2100	Kühne et al. (2005)	Q	
	4.4×10^{-4}		Nirmalakhandan and Speece (1988a)	Q	
	8.4×10^{-4}		Irmann (1965)	Q	
		2400	Kühne et al. (2005)	?	
	9.2×10^{-4}		Yaws and Yang (1992)	?	92
	9.0×10^{-4}		Abraham et al. (1990)	?	
			Wilhelm et al. (1977)	W	30
1-butyne	5.2×10^{-4}		Mackay and Shiu (1981)	L	
C_2H_5CCH	7.5×10^{-4}	1900	Wilhelm et al. (1977)	L	
(ethylacetylene)	7.2×10^{-4}	1900	Simpson and Lovell (1962)	M	
[107-00-6]	5.2×10^{-4}		Mackay et al. (2006a)	V	
	2.9×10^{-4}		Hwang et al. (1992)	V	
	5.3×10^{-4}		Hine and Mookerjee (1975)	V	
	3.6×10^{-4}		Hilal et al. (2008)	Q	
		2500	Kühne et al. (2005)	Q	
	3.7×10^{-4}		Nirmalakhandan and Speece (1988a)	Q	
	6.4×10^{-4}		Irmann (1965)	Q	
		1900	Kühne et al. (2005)	?	
	5.4×10^{-4}		Yaws and Yang (1992)	?	92
	5.3×10^{-4}		Abraham et al. (1990)	?	
2-butyne C_4H_6 [503-17-3]	1.9×10^{-3}		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1-pentyne	4.0×10^{-4}		Mackay and Shiu (1981)	L	
C_3H_7CCH	4.0×10^{-4}		Mackay et al. (2006a)	V	
[627-19-0]	4.0×10^{-4}		Mackay et al. (1993)	V	
	2.5×10^{-4}		Amoore and Buttery (1978)	V	
	3.9×10^{-4}		Hine and Mookerjee (1975)	V	
	2.4×10^{-4}		Hilal et al. (2008)	Q	
	2.9×10^{-4}		Nirmalakhandan and Speece (1988a)	Q	
	2.0×10^{-4}		Yaws and Yang (1992)	?	92
	3.9×10^{-4}		Abraham et al. (1990)	?	
2-pentyne	1.1×10^{-3}		Hilal et al. (2008)	Q	
C_5H_8					
[627-21-4]					
1-hexyne	2.4×10^{-4}		Mackay et al. (2006a)	V	
C_4H_9CCH	2.4×10^{-4}		Mackay et al. (1993)	V	
[693-02-7]	2.5×10^{-4}		Hine and Mookerjee (1975)	V	
	1.7×10^{-4}		Hilal et al. (2008)	Q	
	2.3×10^{-4}		Nirmalakhandan and Speece (1988a)	Q	
	4.6×10^{-4}		Yaws and Yang (1992)	?	92
	2.5×10^{-4}		Abraham et al. (1990)	?	
2-hexyne	5.8×10^{-4}		Hilal et al. (2008)	Q	
C_6H_{10}					
[764-35-2]					
3-hexyne	6.0×10^{-4}		Hilal et al. (2008)	Q	
C_6H_{10}					
[928-49-4]					
1-heptyne	1.3×10^{-4}		Mackay et al. (2006a)	V	
$C_5H_{11}CCH$	2.2×10^{-4}		Mackay et al. (1993)	V	
[628-71-7]	1.5×10^{-4}		Hine and Mookerjee (1975)	V	
	1.1×10^{-4}		Hilal et al. (2008)	Q	
	1.8×10^{-4}		Nirmalakhandan and Speece (1988a)	Q	
	1.4×10^{-4}		Yaws and Yang (1992)	?	92
	1.5×10^{-4}		Abraham et al. (1990)	?	
1-octyne	1.3×10^{-4}		Mackay et al. (2006a)	V	
$C_6H_{13}CCH$	1.3×10^{-4}		Mackay et al. (1993)	V	
[629-05-0]	1.2×10^{-4}		Hine and Mookerjee (1975)	V	
	6.4×10^{-5}		Hilal et al. (2008)	Q	
	1.5×10^{-4}		Nirmalakhandan and Speece (1988a)	Q	
	1.2×10^{-4}		Yaws and Yang (1992)	?	92
	1.2×10^{-4}		Abraham et al. (1990)	?	
2-octyne	2.2×10^{-4}		Hilal et al. (2008)	Q	
C_8H_{14}					
[2809-67-8]					

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1-nonyne	6.9×10^{-5}		Meylan and Howard (1991)	V	
$C_7H_{15}CCH$	6.9×10^{-5}		Hine and Mookerjee (1975)	V	
[3452-09-3]	4.4×10^{-5}		Hilal et al. (2008)	Q	
	1.1×10^{-4}		Meylan and Howard (1991)	Q	
	1.2×10^{-4}		Nirmalakhandan and Speece (1988a)	Q	
	6.9×10^{-5}		Yaws and Yang (1992)	?	92
	6.9×10^{-5}		Abraham et al. (1990)	?	
3-buten-1-yne	3.7×10^{-4}	1700	Wilhelm et al. (1977)	L	
CH_2CHCCH	3.8×10^{-4}	1800	Simpson and Lovell (1962)	M	120
(vinylacetylene)	3.4×10^{-4}		HSDB (2015)	V	
[689-97-4]	1.1×10^{-3}		Hilal et al. (2008)	Q	
		2600	Kühne et al. (2005)	Q	
		2100	Kühne et al. (2005)	?	
butadiyne	2.0×10^{-3}		Irmann (1965)	C	
C_4H_2	8.6×10^{-3}		Hilal et al. (2008)	Q	
(biacetylene)	1.9×10^{-3}		Yaws and Yang (1992)	?	92
[460-12-8]					
Mononuclear aromatics					
benzene	1.7×10^{-3}	4200	Staudinger and Roberts (2001)	L	
C_6H_6	1.6×10^{-3}	4100	Staudinger and Roberts (1996)	L	
[71-43-2]	1.8×10^{-3}		Mackay and Shiu (1981)	L	
	1.7×10^{-3}		Kim and Kim (2014)	M	
	1.8×10^{-3}	3800	Hiatt (2013)	M	
	3.5×10^{-3}		Zhang et al. (2013)	M	
	1.4×10^{-3}	2400	Lau et al. (2010)	M	89
	1.7×10^{-3}	4200	Sieg et al. (2009)	M	121
	1.8×10^{-3}		Li et al. (2008)	M	
	2.5×10^{-3}		Lodge and Danso (2007)	M	
	1.4×10^{-3}	2200	Lei et al. (2004)	M	122
			Cheng et al. (2003)	M	123
	1.8×10^{-3}		Karl et al. (2003)	M	31
	1.8×10^{-3}	4200	Bakierowska and Trzeszczyński (2003)	M	
	1.8×10^{-3}	3700	Görgényi et al. (2002)	M	
	1.9×10^{-3}	3200	Bierwagen and Keller (2001)	M	
	2.1×10^{-3}		Kochetkov et al. (2001)	M	115, 124
	1.7×10^{-3}		Kochetkov et al. (2001)	M	115, 125
	1.8×10^{-3}		Miller and Stuart (2000)	M	126
	3.7×10^{-3}		Altschuh et al. (1999)	M	
	1.7×10^{-3}		Ryu and Park (1999)	M	
	1.8×10^{-3}		Dohnal and Hovorka (1999)	M	
	1.8×10^{-3}		Allen et al. (1998)	M	
	2.2×10^{-3}		Peng and Wan (1998)	M	
	1.4×10^{-3}	3300	Peng and Wan (1998)	M	127
	2.2×10^{-3}		de Wolf and Lieder (1998)	M	31
	1.9×10^{-3}	3200	Peng and Wan (1997)	M	
	1.8×10^{-3}	2700	Kondoh and Nakajima (1997)	M	
	1.4×10^{-3}	3300	Park et al. (1997)	M	
	1.8×10^{-3}	4200	Alaee et al. (1996)	M	
	1.6×10^{-3}	4300	Turner et al. (1996)	M	
	2.1×10^{-3}	3900	Dewulf et al. (1995)	M	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	2.0×10^{-3}		Nielsen et al. (1994)	M	
	1.7×10^{-3}	4000	Khalfaoui and Newsham (1994b)	M	
	1.9×10^{-3}	3800	Robbins et al. (1993)	M	
	1.7×10^{-3}		Hoff et al. (1993)	M	
	1.8×10^{-3}	2300	Ettre et al. (1993)	M	89
	1.5×10^{-3}		Hansen et al. (1993)	M	128
	1.7×10^{-3}	4000	Perlinger et al. (1993)	M	
	1.7×10^{-3}		Li and Carr (1993)	M	
	1.8×10^{-3}		Li et al. (1993)	M	
	1.5×10^{-3}		Zhang and Pawliszyn (1993)	M	
	1.7×10^{-3}	4000	Cooling et al. (1992)	M	
	1.8×10^{-3}		Anderson (1992)	M	126
	1.6×10^{-3}	4300	Bissonette et al. (1990)	M	
	2.0×10^{-3}		Guitart et al. (1989)	M	19
	1.8×10^{-3}	3200	Ashworth et al. (1988)	M	103
	1.7×10^{-3}		Keeley et al. (1988)	M	
	2.0×10^{-3}		Hellmann (1987)	M	31
	1.3×10^{-3}		Yurteri et al. (1987)	M	9
	1.8×10^{-3}	3600	Tsonopoulos and Wilson (1983)	M	
	1.7×10^{-3}	3900	Sanemasa et al. (1982)	M	
	1.8×10^{-3}	4000	Leighton and Calo (1981)	M	
	1.7×10^{-3}	3500	Sanemasa et al. (1981)	M	
	1.2×10^{-3}	5300	Ervin et al. (1980)	M	
	1.8×10^{-3}		Warner et al. (1980)	M	
	1.8×10^{-3}		Mackay et al. (1979)	M	
	1.1×10^{-3}		Sato and Nakajima (1979a)	M	19
	1.6×10^{-3}	3800	Tsibul'skii et al. (1979)	M	
	1.8×10^{-3}	4200	Green and Frank (1979)	M	
	1.8×10^{-3}		Vitenberg et al. (1975)	M	
	1.2×10^{-3}		Vitenberg et al. (1974)	M	9
	1.7×10^{-3}	4400	Brown and Wasik (1974)	M	
	2.1×10^{-3}	4500	Hartkopf and Karger (1973)	M	
	1.6×10^{-3}	4500	Wasik and Tsang (1970)	M	
	1.5×10^{-3}		Saylor et al. (1938)	M	23
	3.5×10^{-4}		Abraham and Acree (2007)	V	
	1.8×10^{-3}		Mackay et al. (2006a)	V	
	1.8×10^{-3}		Kochetkov et al. (2001)	V	
	1.8×10^{-3}		Shiu and Ma (2000)	V	
	1.8×10^{-3}		Shiu and Mackay (1997)	V	
	1.8×10^{-3}		Park et al. (1997)	V	
	1.8×10^{-3}		Mackay et al. (1992a)	V	
	1.8×10^{-3}		Hwang et al. (1992)	V	
	1.8×10^{-3}		Eastcott et al. (1988)	V	
	1.8×10^{-3}	3800	Abraham (1984)	V	
	1.8×10^{-3}	3600	Ben-Naim and Wilf (1980)	V	
	1.8×10^{-3}		Warner et al. (1980)	V	
	1.8×10^{-3}		Hine and Mookerjee (1975)	V	
	1.8×10^{-3}	4100	Mackay and Leinonen (1975)	V	
	1.8×10^{-3}	3800	Andon et al. (1954)	V	129
	1.8×10^{-3}		Bohon and Claussen (1951)	V	
	1.8×10^{-3}		Mackay et al. (1979)	T	
		3800	Gill et al. (1976)	T	100

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	1.8×10^{-3}	2200	Goldstein (1982)	X	116
	1.8×10^{-3}		Sieg et al. (2008)	C	
	1.8×10^{-3}		Schüürmann (2000)	C	7
	1.8×10^{-3}		Smith et al. (1993)	C	9
	1.8×10^{-3}		Ryan et al. (1988)	C	
	1.8×10^{-3}		Shen (1982)	C	
	1.7×10^{-3}		Hilal et al. (2008)	Q	
		4000	Kühne et al. (2005)	Q	
	2.2×10^{-3}		Nirmalakhandan and Speece (1988a)	Q	
	1.8×10^{-3}		Arbuckle (1983)	Q	
		3700	Kühne et al. (2005)	?	
	1.8×10^{-3}		Yaws and Yang (1992)	?	92
	1.8×10^{-3}		Abraham et al. (1990)	?	
	2.2×10^{-3}		Mackay and Yeun (1983)	?	
benzene-d6 C_6D_6 [1076-43-3]	1.8×10^{-3}	4000	Hiatt (2013)	M	
	1.6×10^{-3}	4500	Wasik and Tsang (1970)	M	
		3800	Gill et al. (1976)	T	100
methylbenzene $C_6H_5CH_3$ (toluene) [108-88-3]	1.5×10^{-3}	4300	Staudinger and Roberts (2001)	L	
	1.5×10^{-3}	4000	Staudinger and Roberts (1996)	L	
	1.5×10^{-3}		Mackay and Shiu (1981)	L	
	1.5×10^{-3}		Kim and Kim (2014)	M	
	2.1×10^{-3}	4400	Hiatt (2013)	M	
	2.8×10^{-3}		Zhang et al. (2013)	M	
	1.7×10^{-3}	4200	Lee et al. (2013)	M	
	1.5×10^{-3}		Kish et al. (2013)	M	
	1.3×10^{-3}	2700	Lau et al. (2010)	M	89
	1.5×10^{-3}	4300	Sieg et al. (2009)	M	121
	1.4×10^{-3}		Helburn et al. (2008)	M	
	1.5×10^{-3}		Li et al. (2008)	M	
	1.3×10^{-3}	2100	Falabella and Teja (2008)	M	89, 130
	1.4×10^{-3}		Lodge and Danso (2007)	M	
			Cheng et al. (2004)	M	123
	1.4×10^{-3}	2200	Lei et al. (2004)	M	122
			Cheng et al. (2003)	M	123
	1.4×10^{-3}		Karl et al. (2003)	M	31
	2.1×10^{-3}		Bobadilla et al. (2003)	M	
	1.7×10^{-3}	4300	Bakierowska and Trzeszczyński (2003)	M	
	2.0×10^{-3}		Destaillats and Charles (2002)	M	
	1.6×10^{-3}	4100	Görgényi et al. (2002)	M	
	1.7×10^{-3}	3600	Bierwagen and Keller (2001)	M	
	1.0×10^{-3}		Ayuttaya et al. (2001)	M	131
	1.7×10^{-4}		Ayuttaya et al. (2001)	M	132
	7.8×10^{-4}		Ayuttaya et al. (2001)	M	133
	2.3×10^{-3}		Ayuttaya et al. (2001)	M	134
	1.5×10^{-3}		David et al. (2000)	M	126
	1.6×10^{-3}		Miller and Stuart (2000)	M	126
	1.9×10^{-3}	4000	Vane and Giroux (2000)	M	
	1.5×10^{-3}	4700	Dewulf et al. (1999)	M	
	1.7×10^{-3}		Altschuh et al. (1999)	M	
	1.5×10^{-3}		Ryu and Park (1999)	M	
	1.6×10^{-3}		Dohnal and Hovorka (1999)	M	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	1.5×10^{-3}		Allen et al. (1998)	M	
	2.1×10^{-3}		Peng and Wan (1998)	M	
	1.2×10^{-3}	3600	Peng and Wan (1998)	M	127
	2.0×10^{-3}		de Wolf and Lieder (1998)	M	31
	1.7×10^{-3}	3700	Peng and Wan (1997)	M	
	1.7×10^{-3}	2800	Kondoh and Nakajima (1997)	M	
	1.3×10^{-3}	3900	Park et al. (1997)	M	
	1.4×10^{-3}	4100	Turner et al. (1996)	M	
	1.5×10^{-3}		Ramachandran et al. (1996)	M	
	1.8×10^{-3}	4400	Dewulf et al. (1995)	M	
	1.6×10^{-3}		Nielsen et al. (1994)	M	
	1.5×10^{-3}	3400	Robbins et al. (1993)	M	
	1.3×10^{-3}		Hoff et al. (1993)	M	
	1.5×10^{-3}	2500	Ettre et al. (1993)	M	89
	1.4×10^{-3}		Hansen et al. (1993)	M	128
	1.5×10^{-3}	4500	Perlinger et al. (1993)	M	
	1.6×10^{-3}		Li and Carr (1993)	M	
	1.6×10^{-3}		Li et al. (1993)	M	
	1.5×10^{-3}		Zhang and Pawliszyn (1993)	M	
	1.6×10^{-3}	2500	Kolb et al. (1992)	M	102
	1.5×10^{-3}		Anderson (1992)	M	126
	1.4×10^{-3}	5000	Bissonette et al. (1990)	M	
	1.5×10^{-3}	6500	Lamarche and Droste (1989)	M	135
	1.5×10^{-3}	3000	Ashworth et al. (1988)	M	103
	1.6×10^{-3}		Keeley et al. (1988)	M	
	1.7×10^{-3}		Yurteri et al. (1987)	M	9
	1.2×10^{-3}	5400	Schoene and Steinhanses (1985)	M	
	1.5×10^{-3}		Garbarini and Lion (1985)	M	
	1.5×10^{-3}	4200	Sanemasa et al. (1982)	M	
	1.5×10^{-3}	3800	Leighton and Calo (1981)	M	
	1.6×10^{-3}	4100	Sanemasa et al. (1981)	M	
	1.5×10^{-3}	4900	Ervin et al. (1980)	M	
	1.7×10^{-3}		Warner et al. (1980)	M	
	1.5×10^{-3}		Mackay et al. (1979)	M	
	8.6×10^{-4}		Sato and Nakajima (1979a)	M	19
	1.5×10^{-3}	4700	Tsibul'skii et al. (1979)	M	
	1.9×10^{-3}		Vitenberg et al. (1975)	M	
	1.6×10^{-3}	5000	Brown and Wasik (1974)	M	
	2.0×10^{-3}	4900	Hartkopf and Karger (1973)	M	
	1.7×10^{-3}	5900	Wasik and Tsang (1970)	M	
	1.5×10^{-3}		Mackay et al. (2006a)	V	
	1.5×10^{-3}		Shiu and Ma (2000)	V	
	1.5×10^{-3}		Park et al. (1997)	V	
	1.5×10^{-3}		Mackay et al. (1992a)	V	
	1.3×10^{-3}		Hwang et al. (1992)	V	
	1.7×10^{-3}		Eastcott et al. (1988)	V	
	1.5×10^{-3}	4400	Abraham (1984)	V	
	1.9×10^{-3}	4200	Ben-Naim and Wilf (1980)	V	
	1.5×10^{-3}		Warner et al. (1980)	V	
	1.5×10^{-3}		Hine and Mookerjee (1975)	V	
	1.5×10^{-3}		Mackay and Leinonen (1975)	V	
	1.8×10^{-3}	4300	Andon et al. (1954)	V	129

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	1.8×10^{-3}		Bohon and Claussen (1951)	V	
	1.5×10^{-3}		Mackay et al. (1979)	T	
		4400	Gill et al. (1976)	T	100
	1.9×10^{-3}	4300	Shaw (1989)	X	3
	1.5×10^{-3}	1900	Goldstein (1982)	X	116
	1.5×10^{-3}		McAuliffe (1971)	X	136
	1.5×10^{-3}		Sieg et al. (2008)	C	
	1.5×10^{-3}		Schüürmann (2000)	C	7
	1.7×10^{-3}		Smith et al. (1993)	C	9
	1.4×10^{-3}		Ryan et al. (1988)	C	
	1.7×10^{-3}		Shen (1982)	C	
	1.5×10^{-3}		Hilal et al. (2008)	Q	
		4300	Kühne et al. (2005)	Q	
	1.6×10^{-3}		Nirmalakhandan and Speece (1988a)	Q	
	1.2×10^{-3}		Arbuckle (1983)	Q	
		4200	Kühne et al. (2005)	?	
	1.5×10^{-3}		Yaws and Yang (1992)	?	92
	1.5×10^{-3}		Abraham et al. (1990)	?	
	1.9×10^{-3}		Mackay and Yeun (1983)	?	
methylbenzene-d8 $C_6D_5CD_3$ (toluene-d8) [2037-26-5]	2.0×10^{-3}	4300	Hiatt (2013)	M	
1,2-dimethylbenzene $C_6H_4(CH_3)_2$ (*o*-xylene) [95-47-6]	2.4×10^{-3}	4200	Fogg and Sangster (2003)	L	
	2.0×10^{-3}	4300	Staudinger and Roberts (2001)	L	
	1.9×10^{-3}	4000	Staudinger and Roberts (1996)	L	
	2.0×10^{-3}		Mackay and Shiu (1981)	L	
	1.9×10^{-3}		Kim and Kim (2014)	M	
	3.2×10^{-3}	4500	Hiatt (2013)	M	
	2.2×10^{-3}		Zhang et al. (2013)	M	
	2.0×10^{-3}	4300	Sieg et al. (2009)	M	121
	2.3×10^{-3}		Li et al. (2008)	M	
	1.7×10^{-3}	2500	Falabella and Teja (2008)	M	89, 130
	2.1×10^{-3}		Dohnal and Hovorka (1999)	M	
	1.9×10^{-3}	3400	Kondoh and Nakajima (1997)	M	
	1.4×10^{-3}		Turner et al. (1996)	M	
	2.4×10^{-3}	4500	Dewulf et al. (1995)	M	
	1.9×10^{-3}	3400	Robbins et al. (1993)	M	
	1.9×10^{-3}		Li and Carr (1993)	M	
	2.1×10^{-3}		Li et al. (1993)	M	
	2.7×10^{-3}		Zhang and Pawliszyn (1993)	M	
	1.4×10^{-3}	3000	Kolb et al. (1992)	M	102
	1.7×10^{-3}		Anderson (1992)	M	126
	2.1×10^{-3}	5600	Bissonette et al. (1990)	M	
	1.9×10^{-3}	3200	Ashworth et al. (1988)	M	103
	2.3×10^{-3}		Yurteri et al. (1987)	M	9
	1.9×10^{-3}	4500	Sanemasa et al. (1982)	M	
	1.0×10^{-3}		Sato and Nakajima (1979a)	M	19
	2.9×10^{-3}	5400	Wasik and Tsang (1970)	M	
	1.8×10^{-3}		Mackay et al. (2006a)	V	
	1.8×10^{-3}		Shiu and Ma (2000)	V	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	1.8×10^{-3}		Mackay et al. (1992a)	V	
	2.3×10^{-3}		Eastcott et al. (1988)	V	
	1.8×10^{-3}		Hine and Mookerjee (1975)	V	
	1.9×10^{-3}		Mackay and Leinonen (1975)	V	
	1.9×10^{-3}		Sieg et al. (2008)	C	
	2.0×10^{-3}		Hilal et al. (2008)	Q	
		4100	Kühne et al. (2005)	Q	
	1.1×10^{-3}		Nirmalakhandan and Speece (1988a)	Q	
		4100	Kühne et al. (2005)	?	
	2.3×10^{-3}		Yaws and Yang (1992)	?	92
	1.9×10^{-3}		Abraham et al. (1990)	?	
1,2-dimethylbenzene-d10 $C_6D_4(CD_3)_2$ (o-xylene-d10) [56004-61-6]	3.0×10^{-3}	4700	Hiatt (2013)	M	
1,3-dimethylbenzene $C_6H_4(CH_3)_2$ (m-xylene) [108-38-3]	1.4×10^{-3}	4200	Staudinger and Roberts (2001)	L	
	1.3×10^{-3}	4200	Staudinger and Roberts (1996)	L	
	1.4×10^{-3}		Mackay and Shiu (1981)	L	
	1.3×10^{-3}		Kim and Kim (2014)	M	
	1.4×10^{-3}		Li et al. (2008)	M	
	1.3×10^{-3}		Karl et al. (2003)	M	31
	1.5×10^{-3}		Dohnal and Hovorka (1999)	M	
	1.5×10^{-3}	2900	Kondoh and Nakajima (1997)	M	
	1.6×10^{-3}	4300	Dewulf et al. (1995)	M	
	1.3×10^{-3}		Li and Carr (1993)	M	
	1.5×10^{-3}		Li et al. (1993)	M	
	1.4×10^{-3}	6000	Bissonette et al. (1990)	M	
	1.3×10^{-3}	3300	Ashworth et al. (1988)	M	103
	1.4×10^{-3}	4700	Sanemasa et al. (1982)	M	
	6.4×10^{-4}		Sato and Nakajima (1979a)	M	19
	1.8×10^{-3}	4500	Tsibul'skii et al. (1979)	M	
	1.4×10^{-3}		Mackay et al. (2006a)	V	
	1.4×10^{-3}		Shiu and Ma (2000)	V	
	1.4×10^{-3}		Mackay et al. (1992a)	V	
	1.4×10^{-3}		Eastcott et al. (1988)	V	
	1.6×10^{-3}		Hine and Mookerjee (1975)	V	
	1.7×10^{-3}	5000	Andon et al. (1954)	V	129
	1.7×10^{-3}		Bohon and Claussen (1951)	V	
	1.7×10^{-3}	4300	Shaw (1989)	X	3
	1.4×10^{-3}		Sieg et al. (2008)	C	
	1.5×10^{-3}		Hilal et al. (2008)	Q	
		4700	Kühne et al. (2005)	Q	
	1.1×10^{-3}		Nirmalakhandan and Speece (1988a)	Q	
		4900	Kühne et al. (2005)	?	
	1.5×10^{-3}		Yaws and Yang (1992)	?	92
	1.3×10^{-3}		Abraham et al. (1990)	?	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1,4-dimethylbenzene	1.9×10^{-3}	4200	Fogg and Sangster (2003)	L	
$C_6H_4(CH_3)_2$	1.3×10^{-3}	4000	Staudinger and Roberts (2001)	L	
(*p*-xylene)	1.3×10^{-3}	3800	Staudinger and Roberts (1996)	L	
[106-42-3]	1.4×10^{-3}		Mackay and Shiu (1981)	L	
	1.3×10^{-3}		Kim and Kim (2014)	M	
	1.4×10^{-3}		Li et al. (2008)	M	
	2.0×10^{-3}		Bobadilla et al. (2003)	M	
	1.4×10^{-3}		Ryu and Park (1999)	M	
	1.5×10^{-3}		Dohnal and Hovorka (1999)	M	
	1.5×10^{-3}	2900	Kondoh and Nakajima (1997)	M	
	9.8×10^{-4}	3200	Park et al. (1997)	M	
	1.7×10^{-3}	4800	Dewulf et al. (1995)	M	
	1.2×10^{-3}	3100	Hansen et al. (1993)	M	105
	1.3×10^{-3}		Li and Carr (1993)	M	
	1.4×10^{-3}		Li et al. (1993)	M	
	1.7×10^{-3}		Zhang and Pawliszyn (1993)	M	
	1.2×10^{-3}	5300	Bissonette et al. (1990)	M	
	1.3×10^{-3}	3500	Ashworth et al. (1988)	M	103
	1.3×10^{-3}	4800	Sanemasa et al. (1982)	M	
	6.1×10^{-4}		Sato and Nakajima (1979a)	M	19
	2.3×10^{-3}	5400	Wasik and Tsang (1970)	M	
	1.8×10^{-4}		Abraham and Acree (2007)	V	
	1.7×10^{-3}		Mackay et al. (2006a)	V	
	1.4×10^{-3}		Shiu and Ma (2000)	V	
	1.5×10^{-3}		Park et al. (1997)	V	
	1.7×10^{-3}		Mackay et al. (1992a)	V	
	1.5×10^{-3}		Hwang et al. (1992)	V	
	1.8×10^{-3}		Eastcott et al. (1988)	V	
	1.6×10^{-3}		Hine and Mookerjee (1975)	V	
	1.6×10^{-3}	4900	Andon et al. (1954)	V	129
	1.6×10^{-3}		Bohon and Claussen (1951)	V	
	1.4×10^{-3}		Foster et al. (1994)	X	137
	1.4×10^{-3}		Sieg et al. (2008)	C	
	1.3×10^{-3}		Schüürmann (2000)	C	7
	1.5×10^{-3}		Hilal et al. (2008)	Q	
		4700	Kühne et al. (2005)	Q	
	1.1×10^{-3}		Nirmalakhandan and Speece (1988a)	Q	
		4500	Kühne et al. (2005)	?	
	1.6×10^{-3}		Yaws and Yang (1992)	?	92
	1.4×10^{-3}		Abraham et al. (1990)	?	
1,2,3-trimethylbenzene	2.7×10^{-3}	4800	Fogg and Sangster (2003)	L	
$C_6H_3(CH_3)_3$	3.1×10^{-3}		Mackay and Shiu (1981)	L	
[526-73-8]	2.4×10^{-3}	4500	Sanemasa et al. (1982)	M	
	2.9×10^{-3}		Mackay et al. (2006a)	V	
	2.9×10^{-3}		Shiu and Ma (2000)	V	
	3.1×10^{-3}		Abraham et al. (1994a)	V	
	2.9×10^{-3}		Mackay et al. (1992a)	V	
	2.7×10^{-3}		Eastcott et al. (1988)	V	
	3.1×10^{-3}		Hilal et al. (2008)	Q	
		3900	Kühne et al. (2005)	Q	
	8.2×10^{-4}		Nirmalakhandan et al. (1997)	Q	
		4400	Kühne et al. (2005)	?	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	2.7×10^{-3}		Yaws and Yang (1992)	?	92
	2.1×10^{-3}		Abraham et al. (1990)	?	
1,2,4-trimethylbenzene	1.7×10^{-3}	3100	Fogg and Sangster (2003)	L	
$C_6H_3(CH_3)_3$	1.7×10^{-3}		Mackay and Shiu (1981)	L	
[95-63-6]	3.2×10^{-3}	5200	Hiatt (2013)	M	
	1.7×10^{-3}		Li et al. (2008)	M	
	2.3×10^{-3}	3600	Kondoh and Nakajima (1997)	M	
	1.5×10^{-3}	4300	Hansen et al. (1993)	M	105
	2.1×10^{-3}		Yurteri et al. (1987)	M	9
	1.6×10^{-3}	4800	Sanemasa et al. (1982)	M	
	1.8×10^{-3}		Mackay et al. (2006a)	V	
	1.8×10^{-3}		Shiu and Ma (2000)	V	
	1.7×10^{-3}		Abraham et al. (1994a)	V	
	1.8×10^{-3}		Mackay et al. (1992a)	V	
	1.6×10^{-3}		Eastcott et al. (1988)	V	
	1.7×10^{-3}		Hine and Mookerjee (1975)	V	
	2.1×10^{-3}		Hilal et al. (2008)	Q	
		4500	Kühne et al. (2005)	Q	
	8.0×10^{-4}		Nirmalakhandan and Speece (1988a)	Q	
	8.2×10^{-4}		Arbuckle (1983)	Q	
		4700	Kühne et al. (2005)	?	
	1.7×10^{-3}		Yaws and Yang (1992)	?	92
	1.6×10^{-3}		Abraham et al. (1990)	?	
1,3,5-trimethylbenzene	1.7×10^{-3}		Mackay and Shiu (1981)	L	
$C_6H_3(CH_3)_3$	2.3×10^{-3}	5100	Hiatt (2013)	M	
(mesitylene)	2.0×10^{-3}		Karl et al. (2003)	M	31
[108-67-8]	1.5×10^{-3}	3000	Kondoh and Nakajima (1997)	M	
	1.3×10^{-3}		Li and Carr (1993)	M	
	1.4×10^{-3}		Li et al. (1993)	M	
	1.4×10^{-3}	3600	Ashworth et al. (1988)	M	103
	1.1×10^{-3}	4700	Sanemasa et al. (1982)	M	
	1.1×10^{-3}	4600	Sanemasa et al. (1981)	M	
	1.4×10^{-4}		Abraham and Acree (2007)	V	
	1.3×10^{-3}		Mackay et al. (2006a)	V	
	1.3×10^{-3}		Shiu and Ma (2000)	V	
	1.8×10^{-3}		Abraham et al. (1994a)	V	
	1.3×10^{-3}		Mackay et al. (1992a)	V	
	1.2×10^{-3}		Eastcott et al. (1988)	V	
	1.4×10^{-3}		Hilal et al. (2008)	Q	
		5000	Kühne et al. (2005)	Q	
	8.0×10^{-4}		Nirmalakhandan et al. (1997)	Q	
		4400	Kühne et al. (2005)	?	
	1.2×10^{-3}		Yaws and Yang (1992)	?	92
	1.3×10^{-3}		Abraham et al. (1990)	?	
1,2,3,5-tetramethylbenzene	1.2×10^{-3}		Zhang et al. (2010)	Q	107, 108
$C_{10}H_{14}$	2.2×10^{-3}		Zhang et al. (2010)	Q	107, 109
[527-53-7]	2.2×10^{-3}		Zhang et al. (2010)	Q	107, 110
	4.1×10^{-4}		Zhang et al. (2010)	Q	107, 111

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1,2,4,5-tetramethylbenzene	3.9×10^{-4}		Mackay and Shiu (1981)	L	
$C_{10}H_{14}$	3.9×10^{-4}		Mackay et al. (2006a)	V	
[95-93-2]	3.9×10^{-4}		Mackay et al. (1992a)	V	
	3.9×10^{-4}		Eastcott et al. (1988)	V	
	1.2×10^{-3}		Zhang et al. (2010)	Q	107, 108
	2.5×10^{-3}		Zhang et al. (2010)	Q	107, 109
	1.9×10^{-3}		Zhang et al. (2010)	Q	107, 110
	4.1×10^{-4}		Zhang et al. (2010)	Q	107, 111
	2.9×10^{-3}		Hilal et al. (2008)	Q	
	3.9×10^{-4}		Yaws and Yang (1992)	?	92
ethylbenzene	1.4×10^{-3}	4800	Fogg and Sangster (2003)	L	
$C_6H_5C_2H_5$	1.3×10^{-3}	5100	Staudinger and Roberts (2001)	L	
[100-41-4]	1.2×10^{-3}	5100	Staudinger and Roberts (1996)	L	
	1.3×10^{-3}		Mackay and Shiu (1981)	L	
	2.0×10^{-3}	4100	Hiatt (2013)	M	
	1.4×10^{-3}		Zhang et al. (2013)	M	
	1.3×10^{-3}	5100	Sieg et al. (2009)	M	121
	1.4×10^{-3}		Li et al. (2008)	M	
	1.2×10^{-3}	2700	Falabella and Teja (2008)	M	89, 130
	1.1×10^{-3}		Lodge and Danso (2007)	M	
			Cheng et al. (2003)	M	123
	1.6×10^{-3}		Miller and Stuart (2000)	M	126
	1.1×10^{-3}		Ryu and Park (1999)	M	138
	1.3×10^{-3}		Allen et al. (1998)	M	
	1.4×10^{-3}	2800	Kondoh and Nakajima (1997)	M	
	1.1×10^{-3}		Turner et al. (1996)	M	
	1.5×10^{-3}	4900	Dewulf et al. (1995)	M	
	1.3×10^{-3}	4600	Robbins et al. (1993)	M	
	1.3×10^{-3}	5300	Perlinger et al. (1993)	M	
	1.3×10^{-3}		Li and Carr (1993)	M	
	1.3×10^{-3}		Li et al. (1993)	M	
	2.5×10^{-3}		Zhang and Pawliszyn (1993)	M	
	1.1×10^{-3}	5500	Bissonette et al. (1990)	M	
	1.2×10^{-3}	5000	Ashworth et al. (1988)	M	103
	1.3×10^{-3}	4400	Heidman et al. (1985)	M	
	1.3×10^{-3}	4600	Sanemasa et al. (1982)	M	
	1.4×10^{-3}	4500	Sanemasa et al. (1981)	M	
	1.4×10^{-3}	5500	Ervin et al. (1980)	M	
	1.5×10^{-3}		Warner et al. (1980)	M	
	1.2×10^{-3}		Mackay et al. (1979)	M	
	6.6×10^{-4}		Sato and Nakajima (1979a)	M	19
	1.3×10^{-3}	5600	Brown and Wasik (1974)	M	
	1.6×10^{-3}	6400	Hartkopf and Karger (1973)	M	
	1.6×10^{-4}		Abraham and Acree (2007)	V	
	1.1×10^{-3}		Mackay et al. (2006a)	V	
	1.2×10^{-3}		Shiu and Ma (2000)	V	
	1.2×10^{-3}		Lide and Frederikse (1995)	V	
	1.1×10^{-3}		Mackay et al. (1992a)	V	
	1.2×10^{-3}		Hwang et al. (1992)	V	
	1.0×10^{-3}		Eastcott et al. (1988)	V	
	1.2×10^{-3}	4800	Abraham (1984)	V	
	1.6×10^{-3}	4900	Ben-Naim and Wilf (1980)	V	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	1.5×10^{-3}		Warner et al. (1980)	V	
	1.1×10^{-3}		Hine and Mookerjee (1975)	V	
	1.5×10^{-3}	4900	Andon et al. (1954)	V	129
	1.5×10^{-3}		Bohon and Claussen (1951)	V	
	1.1×10^{-3}		Mackay et al. (1979)	T	
		4800	Gill et al. (1976)	T	100
	1.6×10^{-3}	1700	Goldstein (1982)	X	116
	1.3×10^{-3}		Sieg et al. (2008)	C	
	1.6×10^{-3}		Ryan et al. (1988)	C	
	1.5×10^{-3}		Shen (1982)	C	
	1.4×10^{-3}		Hilal et al. (2008)	Q	
		4700	Kühne et al. (2005)	Q	
	1.3×10^{-3}		Nirmalakhandan and Speece (1988a)	Q	
	1.3×10^{-3}		Arbuckle (1983)	Q	
		5000	Kühne et al. (2005)	?	
	1.1×10^{-3}		Hoff et al. (1993)	?	7
	1.2×10^{-3}		Yaws and Yang (1992)	?	92
	1.2×10^{-3}		Abraham et al. (1990)	?	
ethylbenzene-d10 $C_6D_5C_2D_5$ [25837-05-2]	2.0×10^{-3}	4200	Hiatt (2013)	M	
1,2-diethylbenzene $C_{10}H_{14}$ (*o*-diethylbenzene) [135-01-3]	3.8×10^{-3}		HSDB (2015)	V	
	1.2×10^{-3}		Hilal et al. (2008)	C	
	1.3×10^{-3}		Hilal et al. (2008)	Q	
		4800	Kühne et al. (2005)	Q	
		5100	Kühne et al. (2005)	?	
1,3-diethylbenzene $C_{10}H_{14}$ (*m*-diethylbenzene) [141-93-5]	1.1×10^{-3}		HSDB (2015)	V	
	3.8×10^{-3}		Hilal et al. (2008)	C	
	9.7×10^{-4}		Hilal et al. (2008)	Q	
		5300	Kühne et al. (2005)	Q	
		5300	Kühne et al. (2005)	?	
1,4-diethylbenzene $C_{10}H_{14}$ (*p*-diethylbenzene) [105-05-5]	1.4×10^{-3}		HSDB (2015)	V	
	1.1×10^{-3}		Hilal et al. (2008)	Q	
		5300	Kühne et al. (2005)	Q	
	7.9×10^{-4}		Nirmalakhandan et al. (1997)	Q	
		5900	Kühne et al. (2005)	?	
propylbenzene $C_6H_5C_3H_7$ [103-65-1]	1.4×10^{-3}		Mackay and Shiu (1981)	L	
	1.9×10^{-3}	4500	Hiatt (2013)	M	
	1.5×10^{-3}		Karl et al. (2003)	M	31
	1.1×10^{-3}	2600	Kondoh and Nakajima (1997)	M	
	8.6×10^{-4}	5400	Perlinger et al. (1993)	M	
	9.3×10^{-4}		Li and Carr (1993)	M	
	9.1×10^{-4}		Li et al. (1993)	M	
	9.0×10^{-4}	3700	Ashworth et al. (1988)	M	103
	9.5×10^{-4}	4700	Sanemasa et al. (1982)	M	
	5.0×10^{-4}		Sato and Nakajima (1979a)	M	19
	9.6×10^{-4}		Mackay et al. (2006a)	V	
	9.6×10^{-4}		Shiu and Ma (2000)	V	
	9.6×10^{-4}		Mackay et al. (1992a)	V	
	9.7×10^{-4}		Eastcott et al. (1988)	V	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	9.7×10^{-4}	5300	Abraham (1984)	V	
	1.5×10^{-3}	5500	Ben-Naim and Wilf (1980)	V	
	9.9×10^{-4}		Hine and Mookerjee (1975)	V	
		5300	Gill et al. (1976)	T	100
	9.9×10^{-4}		Hilal et al. (2008)	Q	
		5000	Kühne et al. (2005)	Q	
	1.1×10^{-3}		Nirmalakhandan and Speece (1988a)	Q	
		4700	Kühne et al. (2005)	?	
	9.6×10^{-4}		Yaws and Yang (1992)	?	92
	9.7×10^{-4}		Abraham et al. (1990)	?	
(2-propyl)-benzene	1.2×10^{-3}	3200	Staudinger and Roberts (2001)	L	
$C_6H_5C_3H_7$	7.7×10^{-3}		Mackay and Shiu (1981)	L	
(isopropylbenzene; cumene)	1.4×10^{-3}	4900	Hiatt (2013)	M	
[98-82-8]	1.0×10^{-3}	2500	Kondoh and Nakajima (1997)	M	
	8.7×10^{-4}	3300	Hansen et al. (1993)	M	105
	9.1×10^{-4}		Li and Carr (1993)	M	
	8.9×10^{-4}		Li et al. (1993)	M	
	1.6×10^{-3}	3200	Ashworth et al. (1988)	M	103
	8.9×10^{-4}	4700	Sanemasa et al. (1982)	M	
	5.6×10^{-4}		Sato and Nakajima (1979a)	M	19
	6.8×10^{-4}		Mackay et al. (2006a)	V	
	6.8×10^{-4}		Shiu and Ma (2000)	V	
	6.8×10^{-4}		Mackay et al. (1992a)	V	
	6.8×10^{-4}		Hwang et al. (1992)	V	
	6.6×10^{-4}		Eastcott et al. (1988)	V	
	6.7×10^{-4}		Hine and Mookerjee (1975)	V	
	6.8×10^{-4}		Mackay and Leinonen (1975)	V	
	9.4×10^{-4}		Savary et al. (2014)	Q	
	8.6×10^{-4}		Hilal et al. (2008)	Q	
		5000	Kühne et al. (2005)	Q	
	9.2×10^{-4}		Nirmalakhandan et al. (1997)	Q	
	9.2×10^{-4}		Nirmalakhandan and Speece (1988a)	Q	
		4400	Kühne et al. (2005)	?	
	6.8×10^{-4}		Hoff et al. (1993)	?	7
	6.8×10^{-4}		Yaws and Yang (1992)	?	92
	8.8×10^{-4}		Abraham et al. (1990)	?	
			Fogg and Sangster (2003)	W	139
1-ethyl-2-methylbenzene	2.3×10^{-3}		Mackay and Shiu (1981)	L	
$C_6H_4CH_3C_2H_5$	1.9×10^{-3}		Mackay et al. (2006a)	V	
(o-ethyltoluene)	1.9×10^{-3}		Mackay et al. (1992a)	V	
[611-14-3]	1.9×10^{-3}		Eastcott et al. (1988)	V	
	1.8×10^{-3}		Hilal et al. (2008)	Q	
		4500	Kühne et al. (2005)	Q	
	9.5×10^{-4}		Nirmalakhandan et al. (1997)	Q	
		3200	Kühne et al. (2005)	?	
	2.3×10^{-3}		Yaws and Yang (1992)	?	92
1-ethyl-3-methylbenzene	1.3×10^{-3}		Hilal et al. (2008)	Q	
$C_6H_4CH_3C_2H_5$					
(m-ethyltoluene)					
[620-14-4]					

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1-ethyl-4-methylbenzene	2.0×10^{-3}		Mackay and Shiu (1981)	L	
$C_6H_4CH_3C_2H_5$	2.0×10^{-3}		Mackay et al. (2006a)	V	
(*p*-ethyltoluene)	2.0×10^{-3}		Mackay et al. (1992a)	V	
[622-96-8]	2.0×10^{-3}		Eastcott et al. (1988)	V	
	1.4×10^{-3}		Hilal et al. (2008)	Q	
	9.5×10^{-4}		Nirmalakhandan et al. (1997)	Q	
	2.0×10^{-3}		Yaws and Yang (1992)	?	92
butylbenzene	7.7×10^{-4}		Mackay and Shiu (1981)	L	
$C_6H_5C_4H_9$	2.0×10^{-3}	4500	Hiatt (2013)	M	
[104-51-8]	7.4×10^{-4}		Ryu and Park (1999)	M	
	9.1×10^{-4}	2700	Kondoh and Nakajima (1997)	M	
	6.2×10^{-4}	6000	Perlinger et al. (1993)	M	
	7.1×10^{-4}		Li and Carr (1993)	M	
	6.7×10^{-4}		Li et al. (1993)	M	
	6.2×10^{-4}		HSDB (2015)	V	
	9.9×10^{-5}		Abraham and Acree (2007)	V	
	7.5×10^{-4}		Mackay et al. (2006a)	V	
	7.5×10^{-4}		Shiu and Ma (2000)	V	
	7.5×10^{-4}		Mackay et al. (1992a)	V	
	7.6×10^{-4}		Meylan and Howard (1991)	V	
	7.5×10^{-4}		Eastcott et al. (1988)	V	
	7.4×10^{-4}		Abraham (1984)	V	
	1.7×10^{-3}	6500	Ben-Naim and Wilf (1980)	V	
	7.9×10^{-4}		Hine and Mookerjee (1975)	V	
	7.7×10^{-4}		Hilal et al. (2008)	Q	
		5300	Kühne et al. (2005)	Q	
	7.1×10^{-4}		Meylan and Howard (1991)	Q	
	8.4×10^{-4}		Nirmalakhandan and Speece (1988a)	Q	
		4900	Kühne et al. (2005)	?	
	7.5×10^{-4}		Yaws and Yang (1992)	?	92
	7.5×10^{-4}		Abraham et al. (1990)	?	
(1-methylpropyl)-benzene	7.1×10^{-4}		Mackay and Shiu (1981)	L	
$C_6H_5C_4H_9$	1.3×10^{-3}	4600	Hiatt (2013)	M	
(*sec*-butylbenzene)	7.5×10^{-4}	2300	Kondoh and Nakajima (1997)	M	
[135-98-8]	5.5×10^{-4}		HSDB (2015)	V	
	5.3×10^{-4}		Mackay et al. (2006a)	V	
	5.3×10^{-4}		Mackay et al. (1992a)	V	
	5.4×10^{-4}		Eastcott et al. (1988)	V	
	8.6×10^{-4}		Hine and Mookerjee (1975)	V	
	8.6×10^{-4}		Hilal et al. (2008)	Q	
	9.9×10^{-5}		Nirmalakhandan et al. (1997)	Q	
	7.2×10^{-4}		Nirmalakhandan and Speece (1988a)	Q	
(2-methylpropyl)-benzene	3.0×10^{-4}		Mackay and Shiu (1981)	L	
$C_6H_5C_4H_9$	3.0×10^{-4}		Mackay et al. (2006a)	V	
(isobutylbenzene)	3.0×10^{-4}		Mackay et al. (1992a)	V	
[538-93-2]	3.0×10^{-4}		Eastcott et al. (1988)	V	
	7.0×10^{-4}		Hilal et al. (2008)	Q	
	7.0×10^{-4}		Nirmalakhandan et al. (1997)	Q	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
(1,1-dimethylethyl)-benzene	8.3×10^{-4}		Mackay and Shiu (1981)	L	
$C_6H_5C_4H_9$	1.6×10^{-3}	4700	Hiatt (2013)	M	
(*tert*-butylbenzene)	9.4×10^{-4}	2400	Kondoh and Nakajima (1997)	M	
[98-06-6]	7.5×10^{-4}		HSDB (2015)	V	
	7.8×10^{-4}		Mackay et al. (2006a)	V	
	7.8×10^{-4}		Mackay et al. (1992a)	V	
	7.7×10^{-4}		Eastcott et al. (1988)	V	
	8.4×10^{-4}		Hine and Mookerjee (1975)	V	
	7.7×10^{-4}		Hilal et al. (2008)	Q	
	6.0×10^{-4}		Nirmalakhandan and Speece (1988a)	Q	
1-methyl-2-(1-methylethyl)-benzene	9.0×10^{-4}		HSDB (2015)	V	
$C_{10}H_{14}$	1.2×10^{-3}		Hilal et al. (2008)	Q	
(*o*-cymene)					
[527-84-4]					
1-methyl-3-(1-methylethyl)-benzene	1.4×10^{-3}		HSDB (2015)	V	
$C_{10}H_{14}$	9.0×10^{-4}		Copolovici and Niinemets (2005)	V	
(*m*-cymene)	8.6×10^{-4}		Hilal et al. (2008)	Q	
[535-77-3]					
1-methyl-4-(1-methylethyl)-benzene	1.3×10^{-3}		Mackay and Shiu (1981)	L	
$C_{10}H_{14}$	1.8×10^{-3}	4900	Hiatt (2013)	M	
(*p*-cymene; *p*-isopropyltoluene)	1.0×10^{-3}	2600	Kondoh and Nakajima (1997)	M	
[99-87-6]	9.0×10^{-4}		HSDB (2015)	V	
	1.2×10^{-3}		Mackay et al. (2006a)	V	
	1.1×10^{-3}		Copolovici and Niinemets (2005)	V	
	9.1×10^{-4}		Niinemets and Reichstein (2002)	V	
	1.3×10^{-3}		Abraham et al. (1994a)	V	
	1.2×10^{-3}		Mackay et al. (1992a)	V	
	1.2×10^{-3}		Eastcott et al. (1988)	V	
	8.8×10^{-4}		Hilal et al. (2008)	Q	
		5300	Kühne et al. (2005)	Q	
	6.5×10^{-4}		Nirmalakhandan et al. (1997)	Q	
		4500	Kühne et al. (2005)	?	
4-*tert*-butyltoluene	6.4×10^{-4}		HSDB (2015)	Q	38
$C_{11}H_{16}$	6.4×10^{-4}		Zhang et al. (2010)	Q	107, 108
[98-51-1]	5.2×10^{-4}		Zhang et al. (2010)	Q	107, 109
	1.3×10^{-3}		Zhang et al. (2010)	Q	107, 110
	4.7×10^{-4}		Zhang et al. (2010)	Q	107, 111
pentylbenzene	1.7×10^{-3}		Mackay and Shiu (1981)	L	
$C_6H_5C_5H_{11}$	6.1×10^{-4}		Ryu and Park (1999)	M	
[538-68-1]	5.9×10^{-4}		Mackay et al. (2006a)	V	
	5.9×10^{-4}		Mackay et al. (1992a)	V	
	1.6×10^{-3}		Eastcott et al. (1988)	V	
	6.0×10^{-4}		Abraham (1984)	V	
	3.0×10^{-3}	7800	Ben-Naim and Wilf (1980)	V	
	6.1×10^{-4}		Hilal et al. (2008)	Q	
	6.4×10^{-4}		Nirmalakhandan et al. (1997)	Q	
	5.9×10^{-4}		Yaws and Yang (1992)	?	92
	6.0×10^{-4}		Abraham et al. (1990)	?	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
pentamethylbenzene $C_{11}H_{16}$ [700-12-9]	7.7×10^{-3}		Hilal et al. (2008)	Q	
(1,1-dimethylpropyl)-benzene $C_6H_5C_5H_{11}$ (*tert*-amylbenzene) [2049-95-8]	5.4×10^{-4} 9.9×10^{-4} 5.1×10^{-4}		Hine and Mookerjee (1975) Hilal et al. (2008) Nirmalakhandan and Speece (1988a)	V Q Q	
hexylbenzene $C_6H_5C_6H_{13}$ [1077-16-3]	4.6×10^{-4} 4.6×10^{-4} 4.5×10^{-4} 5.1×10^{-4} 4.5×10^{-4} 7.7×10^{-3} 4.8×10^{-4} 5.0×10^{-4} 4.0×10^{-4} 4.6×10^{-4} 4.3×10^{-4}	 9000 	Mackay et al. (2006a) Mackay et al. (1992a) Meylan and Howard (1991) Eastcott et al. (1988) Abraham (1984) Ben-Naim and Wilf (1980) Hilal et al. (2008) Nirmalakhandan et al. (1997) Meylan and Howard (1991) Yaws and Yang (1992) Abraham et al. (1990)	V V V V V V Q Q Q ? ?	 92
hexamethylbenzene $C_{12}H_{18}$ [87-85-4]	8.6×10^{-3}		Hilal et al. (2008)	Q	
4-*tert*-butyl-*o*-xylene $C_{12}H_{18}$ [7397-06-0]	5.8×10^{-4} 7.2×10^{-4} 9.0×10^{-4} 2.7×10^{-4}		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
1-(1,1-dimethylethyl)-3,5-dimethylbenzene $C_{12}H_{18}$ [98-19-1]	5.8×10^{-4} 4.5×10^{-4} 7.7×10^{-4} 2.7×10^{-4}		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
diisopropylbenzene $C_{12}H_{18}$ [25321-09-9]	4.8×10^{-4}		HSDB (2015)	Q	38
heptylbenzene $C_6H_5C_7H_{15}$ [1078-71-3]	2.2×10^{-2} 3.9×10^{-4}	11000	Ben-Naim and Wilf (1980) Hilal et al. (2008)	V Q	
5-*tert*-butyl-1,2,3-trimethylbenzene $C_{13}H_{20}$ [98-23-7]	5.3×10^{-4} 9.2×10^{-4} 9.0×10^{-4} 1.5×10^{-4}		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
octylbenzene $C_6H_5C_8H_{17}$ [2189-60-8]	5.4×10^{-2} 3.2×10^{-4}	12000	Ben-Naim and Wilf (1980) Hilal et al. (2008)	V Q	
3,5-di-*tert*-butyltoluene $C_{15}H_{24}$ [15181-11-0]	3.7×10^{-3}	9100	Hiatt (2013)	M	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1,3,5-tris(1-methylethyl)benzene	2.5×10^{-4}		Zhang et al. (2010)	Q	107, 108
$C_{15}H_{24}$	1.8×10^{-4}		Zhang et al. (2010)	Q	107, 109
[717-74-8]	5.2×10^{-4}		Zhang et al. (2010)	Q	107, 110
	2.6×10^{-4}		Zhang et al. (2010)	Q	107, 111
ethyl(phenylethyl)-benzene	1.1×10^{-2}		Zhang et al. (2010)	Q	107, 108
$C_{16}H_{18}$	1.2×10^{-2}		Zhang et al. (2010)	Q	107, 109
[64800-83-5]	6.4×10^{-2}		Zhang et al. (2010)	Q	107, 110
	1.8×10^{-2}		Zhang et al. (2010)	Q	107, 111
1-phenyldecane	1.3×10^{-4}		HSDB (2015)	V	
$C_{16}H_{26}$	1.3×10^{-4}		Zhang et al. (2010)	Q	107, 108
[104-72-3]	1.4×10^{-4}		Zhang et al. (2010)	Q	107, 109
	3.4×10^{-4}		Zhang et al. (2010)	Q	107, 110
	2.8×10^{-4}		Zhang et al. (2010)	Q	107, 111
4-(1-phenylethyl)-m-xylene	1.3×10^{-2}		Zhang et al. (2010)	Q	107, 108
$C_{16}H_{18}$	1.6×10^{-2}		Zhang et al. (2010)	Q	107, 109
[6165-52-2]	5.2×10^{-2}		Zhang et al. (2010)	Q	107, 110
	1.5×10^{-2}		Zhang et al. (2010)	Q	107, 111
undecylbenzene $C_{17}H_{28}$ [6742-54-7]	9.9×10^{-5}		HSDB (2015)	Q	38
dodecylbenzene $C_{18}H_{30}$ [123-01-3]	7.6×10^{-5}		HSDB (2015)	Q	38
tridecylbenzene $C_{19}H_{32}$ [123-02-4]	5.5×10^{-5}		HSDB (2015)	Q	38
tetradecylbenzene $C_{20}H_{34}$ [1459-10-5]	4.2×10^{-5}		HSDB (2015)	Q	38
pentadecylbenzene $C_{21}H_{36}$ [2131-18-2]	1.2×10^{-5}		HSDB (2015)	Q	38
ethenylbenzene	2.7×10^{-3}		Kim and Kim (2014)	M	
C_8H_8	4.4×10^{-3}	4600	Hiatt (2013)	M	
(styrene)	3.4×10^{-3}		Dohnal and Hovorka (1999)	M	
[100-42-5]	3.8×10^{-3}	4100	Kondoh and Nakajima (1997)	M	
	2.9×10^{-3}	4800	Bissonette et al. (1990)	M	
	1.8×10^{-3}		Sato and Nakajima (1979a)	M	19
	3.6×10^{-3}		Lide and Frederikse (1995)	V	
	3.3×10^{-3}		Abraham et al. (1994a)	V	
	3.3×10^{-3}		Mackay et al. (1993)	V	
	3.8×10^{-3}	4200	Goldstein (1982)	X	116
	3.8×10^{-3}	3800	Fogg and Sangster (2003)	C	
	3.2×10^{-3}		Hilal et al. (2008)	Q	
		4800	Kühne et al. (2005)	Q	
	3.7×10^{-3}		Nirmalakhandan et al. (1997)	Q	
		3700	Kühne et al. (2005)	?	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	3.7×10^{-3}		Yaws and Yang (1992)	?	92
			Shiu and Ma (2000)	W	140
(E)-1-propenylbenzene C_9H_{10} [873-66-5]	2.9×10^{-3}		Hilal et al. (2008)	Q	
1-propenylbenzene C_9H_{10} [637-50-3]	3.7×10^{-3}		HSDB (2015)	Q	38
2-propenylbenzene	1.4×10^{-3}		Sato and Nakajima (1979a)	M	19
C_9H_{10}	2.2×10^{-3}		Hilal et al. (2008)	Q	
(allylbenzene)	2.9×10^{-3}		Nirmalakhandan et al. (1997)	Q	
[300-57-2]					
1-ethenyl-3-methylbenzene	3.1×10^{-3}		Hilal et al. (2008)	Q	
C_9H_{10}	2.6×10^{-3}		Yaws and Yang (1992)	?	92
(m-methylstyrene) [100-80-1]					
1-ethenyl-4-methylbenzene	3.1×10^{-3}		HSDB (2015)	V	
C_9H_{10}	3.4×10^{-3}		Hilal et al. (2008)	Q	
(p-methylstyrene)	3.5×10^{-3}		Yaws and Yang (1992)	?	92
[622-97-9]					
(1-methylethenyl)-benzene	3.8×10^{-3}		HSDB (2015)	V	
C_9H_{10}	3.3×10^{-3}		Abraham et al. (1994a)	V	
(α-methyl styrene)	2.4×10^{-3}		Hilal et al. (2008)	Q	
[98-83-9]					
phenylacetylene C_8H_6 [536-74-3]	3.9×10^{-3}		Hilal et al. (2008)	Q	
α-methylstyrene dimer	1.1×10^{-2}		HSDB (2015)	Q	38
$C_{18}H_{20}$	5.7×10^{-3}		Zhang et al. (2010)	Q	107, 108
[6144-04-3]	7.2×10^{-3}		Zhang et al. (2010)	Q	107, 109
	2.4×10^{-1}		Zhang et al. (2010)	Q	107, 110
	9.0×10^{-2}		Zhang et al. (2010)	Q	107, 111
Terpenes and terpenoids					
1-methyl-4-(1-methylethyl)-cyclohexane $C_{10}H_{20}$ (p-menthane) [99-82-1]	5.6×10^{-6}		Copolovici and Niinemets (2005)	V	
α-pinene	2.9×10^{-4}	1800	Leng et al. (2013)	M	
$C_{10}H_{16}$	7.4×10^{-5}	4400	Copolovici and Niinemets (2005)	M	
[80-56-8]	5.8×10^{-4}		Karl et al. (2003)	M	31
	7.0×10^{-5}		Fichan et al. (1999)	M	
	4.7×10^{-5}		Falk et al. (1990)	M	19
	3.4×10^{-5}		HSDB (2015)	V	
	7.4×10^{-5}		Copolovici and Niinemets (2005)	V	
	7.4×10^{-5}		Niinemets and Reichstein (2002)	V	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	2.8×10^{-5}	10000	Li et al. (1998)	V	
	3.5×10^{-5}		Hilal et al. (2008)	C	
	3.1×10^{-5}		Hilal et al. (2008)	Q	
β-pinene	1.6×10^{-4}		Helburn et al. (2008)	M	
$C_{10}H_{16}$	1.5×10^{-4}	4500	Copolovici and Niinemets (2005)	M	
[127-91-3]	4.9×10^{-4}		Karl et al. (2003)	M	31
	4.7×10^{-5}		Falk et al. (1990)	M	19
	1.5×10^{-4}		Copolovici and Niinemets (2005)	V	
	1.5×10^{-4}		Niinemets and Reichstein (2002)	V	
	6.2×10^{-5}		HSDB (2015)	Q	38
1-methyl-4-(1-methylethyl)-1,3-cyclohexadiene	2.9×10^{-4}	4800	Copolovici and Niinemets (2005)	M	
$C_{10}H_{16}$	4.5×10^{-4}		Karl et al. (2003)	M	31
(α-terpinene)	2.8×10^{-4}		Copolovici and Niinemets (2005)	V	
[99-86-5]	5.1×10^{-4}		Niinemets and Reichstein (2002)	V	
1-methyl-4-(1-methylethyl)-1,4-cyclohexadiene	3.8×10^{-4}	4800	Copolovici and Niinemets (2005)	M	
$C_{10}H_{16}$	3.8×10^{-4}		Copolovici and Niinemets (2005)	V	
(γ-terpinene)	2.8×10^{-4}		Niinemets and Reichstein (2002)	V	
[99-85-4]	5.4×10^{-4}	8000	Li et al. (1998)	V	
1-methyl-4-(1-methylethenyl)-cyclohexene	4.8×10^{-4}	4600	Leng et al. (2013)	M	
$C_{10}H_{16}$	7.0×10^{-4}		Fichan et al. (1999)	M	
(limonene)	7.0×10^{-4}		Falk et al. (1990)	M	19
[138-86-3]	3.1×10^{-4}		HSDB (2015)	V	
	3.5×10^{-4}		Copolovici and Niinemets (2005)	V	
	6.4×10^{-4}	3000	van Roon et al. (2005)	V	
	3.5×10^{-4}		Niinemets and Reichstein (2002)	V	
	1.7×10^{-4}	10000	Li et al. (1998)	V	
	1.1×10^{-4}		Hilal et al. (2008)	Q	
(R)-1-methyl-4-(1-methylethenyl)-cyclohexene	2.6×10^{-4}		Helburn et al. (2008)	M	
$C_{10}H_{16}$	3.5×10^{-4}	4500	Copolovici and Niinemets (2005)	M	
(R-(+)-limonene; D-limonene)	3.9×10^{-4}		HSDB (2015)	V	
[5989-27-5]	3.8×10^{-4}		Mackay et al. (2006a)	V	
(S)-1-methyl-4-(1-methylethenyl)-cyclohexene $C_{10}H_{16}$ (S-(-)-limonene) [5989-54-8]	3.5×10^{-4}	4400	Copolovici and Niinemets (2005)	M	
3,7,7-trimethyl-bicyclo[4.1.0]hept-3-ene	1.6×10^{-4}		Falk et al. (1990)	M	19
$C_{10}H_{16}$	7.3×10^{-5}		Copolovici and Niinemets (2005)	V	
(3-carene)	7.3×10^{-5}		Niinemets and Reichstein (2002)	V	
[13466-78-9]					

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
7-methyl-3-methylene-1,6-octadiene	8.7×10^{-4}		Fichan et al. (1999)	M	
$C_{10}H_{16}$	1.1×10^{-4}		HSDB (2015)	V	
(myrcene)	1.6×10^{-4}		Copolovici and Niinemets (2005)	V	
[123-35-3]	7.2×10^{-4}	2800	van Roon et al. (2005)	V	
	1.6×10^{-4}		Niinemets and Reichstein (2002)	V	
1-methyl-4-(1-methylethylidene)-cyclohexene	3.8×10^{-4}	5300	Copolovici and Niinemets (2005)	M	
$C_{10}H_{16}$	7.0×10^{-4}		HSDB (2015)	V	
(α-terpinolene)	3.7×10^{-4}		Copolovici and Niinemets (2005)	V	
[586-62-9]	3.8×10^{-4}		Niinemets and Reichstein (2002)	V	
	5.7×10^{-4}	12000	Li et al. (1998)	V	
2-methyl-5-(1-methylethyl)-1,3-cyclohexadiene	1.8×10^{-4}	4500	Copolovici and Niinemets (2005)	M	
$C_{10}H_{16}$	1.8×10^{-4}		Copolovici and Niinemets (2005)	V	
(α-phellandrene)	1.4×10^{-4}		Niinemets and Reichstein (2002)	V	
[99-83-2]					
3-methylene-6-(1-methylethyl)-cyclohexene	1.8×10^{-4}	5100	Copolovici and Niinemets (2005)	M	
$C_{10}H_{16}$	1.8×10^{-4}		Copolovici and Niinemets (2005)	V	
(β-phellandrene)	1.8×10^{-4}		Niinemets and Reichstein (2002)	V	
[555-10-2]					
3,7-dimethyl-1,3,6-octatriene	4.0×10^{-4}		Copolovici and Niinemets (2005)	V	
$C_{10}H_{16}$					
(β-ocimene)					
[13877-91-3]					
(Z)-3,7-dimethyl-1,3,6-octatriene	4.0×10^{-4}		Niinemets and Reichstein (2002)	V	
$C_{10}H_{16}$					
(*cis*-β-ocimene)					
[3338-55-4]					
(E)-3,7-dimethyl-1,3,6-octatriene	3.0×10^{-4}		Niinemets and Reichstein (2002)	V	
$C_{10}H_{16}$					
(*trans*-β-ocimene)					
[3779-61-1]					
2,2-dimethyl-3-methylene-bicyclo[2.2.1]heptane	1.0×10^{-4}		HSDB (2015)	V	
$C_{10}H_{16}$	3.1×10^{-4}		Copolovici and Niinemets (2005)	V	
(camphene)	6.3×10^{-4}		Niinemets and Reichstein (2002)	V	
[79-92-5]					
4-methylene-1-(1-methylethyl)-bicyclo[3.1.0]hexane	1.6×10^{-4}		Copolovici and Niinemets (2005)	V	
$C_{10}H_{16}$	1.6×10^{-4}		Niinemets and Reichstein (2002)	V	
(sabinene)					
[3387-41-5]					
tricyclo[3.3.1.1(3,7)]decane	8.0×10^{-4}	3400	van Roon et al. (2005)	V	
$C_{10}H_{16}$	1.1×10^{-4}		Hilal et al. (2008)	Q	
(adamantane)					
[281-23-2]					

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
Polynuclear aromatics					
bis(1-methylethyl)-1,1'-biphenyl	4.5×10^{-3}		HSDB (2015)	Q	38
$C_{18}H_{22}$	6.4×10^{-3}		Zhang et al. (2010)	Q	107, 108
[36876-13-8]	5.0×10^{-3}		Zhang et al. (2010)	Q	107, 109
	3.2×10^{-2}		Zhang et al. (2010)	Q	107, 110
	2.0×10^{-2}		Zhang et al. (2010)	Q	107, 111
1,1-bis(3,4-dimethylphenyl)ethane	1.0×10^{-2}		Zhang et al. (2010)	Q	107, 108
$C_{18}H_{22}$	1.8×10^{-2}		Zhang et al. (2010)	Q	107, 109
[1742-14-9]	6.5×10^{-2}		Zhang et al. (2010)	Q	107, 110
	4.8×10^{-3}		Zhang et al. (2010)	Q	107, 111
1-benzyl-2-(2-methylbenzyl)benzene	2.1×10^{-1}		Zhang et al. (2010)	Q	107, 108
$C_{21}H_{20}$	2.5×10^{-1}		Zhang et al. (2010)	Q	107, 109
[100404-06-6]	1.4		Zhang et al. (2010)	Q	107, 110
	4.1×10^{-1}		Zhang et al. (2010)	Q	107, 111
2,5-dibenzyltoluene	2.1×10^{-1}		Zhang et al. (2010)	Q	107, 108
$C_{21}H_{20}$	2.9×10^{-1}		Zhang et al. (2010)	Q	107, 109
[56310-11-3]	4.5		Zhang et al. (2010)	Q	107, 110
	4.1×10^{-1}		Zhang et al. (2010)	Q	107, 111
biphenyl	3.6×10^{-2}		Mackay and Shiu (1981)	L	
$(C_6H_5)_2$	3.4×10^{-2}		Destaillats and Charles (2002)	M	
[92-52-4]			Dewulf et al. (1999)	M	141
	3.2×10^{-2}		Shiu and Mackay (1997)	M	
	5.1×10^{-2}		Fendinger and Glotfelty (1990)	M	
	3.3×10^{-2}		Mackay and Shiu (1981)	M	
	2.4×10^{-2}		Mackay et al. (1979)	M	
	3.5×10^{-2}		Mackay et al. (2006a)	V	
	3.5×10^{-2}		Mackay et al. (2006b)	V	
	3.6×10^{-2}		Shiu and Ma (2000)	V	
	3.5×10^{-2}		Shiu and Mackay (1997)	V	
	3.6×10^{-2}		Abraham et al. (1994a)	V	
	1.9×10^{-2}		Mackay et al. (1992a)	V	
	1.2×10^{-2}		Eastcott et al. (1988)	V	
	1.9×10^{-2}		Shiu and Mackay (1986)	V	
	7.3×10^{-2}		Burkhard et al. (1985)	V	
	3.5×10^{-2}		Cabani et al. (1981)	V	
	6.4×10^{-3}		Mackay and Leinonen (1975)	V	
	1.2×10^{-2}		Bohon and Claussen (1951)	V	
	7.6×10^{-3}	2900	Paasivirta et al. (1999)	T	
	1.3×10^{-2}		Hilal et al. (2008)	Q	
		5100	Kühne et al. (2005)	Q	
	8.0×10^{-3}		Nirmalakhandan and Speece (1988a)	Q	
	2.9×10^{-2}		Arbuckle (1983)	Q	
		6000	Kühne et al. (2005)	?	
	1.2×10^{-2}		Yaws and Yang (1992)	?	92
2-methyl-1,1'-biphenyl	2.2×10^{-2}		HSDB (2015)	Q	38
$C_{13}H_{12}$	1.0×10^{-2}		Hilal et al. (2008)	Q	
[643-58-3]					

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
3-methyl-1,1'-biphenyl $C_{13}H_{12}$ [643-93-6]	1.5×10^{-2}		Hilal et al. (2008)	Q	
4-methyl-1,1'-biphenyl $C_{13}H_{12}$ [644-08-6]	1.6×10^{-2}		Hilal et al. (2008)	Q	
diphenylmethane $C_{13}H_{12}$ (1,1'-methylenebisbenzene) [101-81-5]	7.6×10^{-2}		HSDB (2015)	V	
	1.1		Mackay et al. (2006a)	V	
	1.1		Mackay et al. (1993)	V	
	4.5×10^{-2}		Meylan and Howard (1991)	V	
	4.7×10^{-2}		Cabani et al. (1981)	V	
	1.0		Mackay et al. (1992b)	X	142
	2.2×10^{-2}		Hilal et al. (2008)	Q	
	2.1×10^{-2}		Meylan and Howard (1991)	Q	
1,2-diphenylethane $C_{14}H_{14}$ (dibenzyl) [103-29-7]	5.9×10^{-2}		Mackay et al. (2006a)	V	
	5.9×10^{-2}		Mackay et al. (1993)	V	
	5.9×10^{-2}		Mackay et al. (1992b)	X	142
o-terphenyl $C_{18}H_{14}$ [84-15-1]	1.6×10^{-1}		HSDB (2015)	V	
	3.1×10^{-1}		Zhang et al. (2010)	Q	107, 108
	8.2×10^{-2}		Zhang et al. (2010)	Q	107, 109
	7.3×10^{-1}		Zhang et al. (2010)	Q	107, 110
	4.0		Zhang et al. (2010)	Q	107, 111
m-terphenyl $C_{18}H_{14}$ [92-06-8]	2.8		HSDB (2015)	V	
p-terphenyl $C_{18}H_{14}$ [92-94-4]			Mackay et al. (2006a)	V	112
	2.9×10^{-1}		HSDB (2015)	Q	38
	3.1×10^{-1}		Zhang et al. (2010)	Q	107, 108
	2.4×10^{-1}		Zhang et al. (2010)	Q	107, 109
	1.1		Zhang et al. (2010)	Q	107, 110
	4.0		Zhang et al. (2010)	Q	107, 111
indene C_9H_8 [95-13-6]	6.2×10^{-3}		HSDB (2015)	Q	38
5-ethylidene-2-norbornene C_9H_{12} [16219-75-3]	7.6×10^{-5}		HSDB (2015)	Q	38
azulene $C_{10}H_8$ [275-51-4]	1.5×10^{-1}	7800	Hiatt (2013)	M	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
naphthalene	2.1×10^{-2}		Ma et al. (2010)	L	143
$C_{10}H_8$	2.2×10^{-2}		Ma et al. (2010)	L	144
[91-20-3]	2.2×10^{-2}	5300	Fogg and Sangster (2003)	L	
	2.3×10^{-2}		Mackay and Shiu (1981)	L	
	3.3×10^{-2}	6100	Hiatt (2013)	M	
	6.0×10^{-2}		Lee et al. (2012)	M	
	4.0×10^{-2}		Bobadilla et al. (2003)	M	
	2.4×10^{-2}		Destaillats and Charles (2002)	M	
	1.3×10^{-2}	3600	Dewulf et al. (1999)	M	
	1.8×10^{-2}		Altschuh et al. (1999)	M	
	2.2×10^{-2}		De Maagd et al. (1998)	M	9
	2.2×10^{-2}		Shiu and Mackay (1997)	M	
	1.7×10^{-2}	5100	Kondoh and Nakajima (1997)	M	
	2.3×10^{-2}	5700	Alaee et al. (1996)	M	
	2.1×10^{-2}		Zhang and Pawliszyn (1993)	M	
	1.3×10^{-2}		Fendinger and Glotfelty (1990)	M	
	2.7×10^{-2}		Yurteri et al. (1987)	M	9
	2.6×10^{-2}		Webster et al. (1985)	M	
	2.0×10^{-2}		Mackay et al. (1979)	M	
	1.8×10^{-2}		Southworth (1979)	M	
	2.2×10^{-2}	5400	Schwarz and Wasik (1977)	M	
	2.3×10^{-2}		Mackay et al. (2006a)	V	
	2.3×10^{-2}		Shiu and Ma (2000)	V	
	3.2×10^{-2}		De Maagd et al. (1998)	V	9
	2.3×10^{-2}		Shiu and Mackay (1997)	V	
	2.0×10^{-2}		Lide and Frederikse (1995)	V	
	2.3×10^{-2}		Abraham et al. (1994a)	V	
	9.0×10^{-3}		Hwang et al. (1992)	V	
	7.2×10^{-3}		Eastcott et al. (1988)	V	
	2.3×10^{-2}		Cabani et al. (1981)	V	
	2.4×10^{-2}		Hine and Mookerjee (1975)	V	
	8.4×10^{-3}		Mackay and Leinonen (1975)	V	
	1.9×10^{-2}		Bohon and Claussen (1951)	V	
	1.1×10^{-2}	2100	Paasivirta et al. (1999)	T	
	2.1×10^{-2}		Mackay et al. (1979)	T	
	2.1×10^{-2}	3600	Goldstein (1982)	X	116
	2.7×10^{-2}		McCarty (1980)	X	145
	2.0×10^{-2}		Smith et al. (1993)	C	
	2.0×10^{-2}		Ryan et al. (1988)	C	
	2.1×10^{-2}		Hilal et al. (2008)	Q	
		5200	Kühne et al. (2005)	Q	
	3.2×10^{-2}		Nirmalakhandan and Speece (1988a)	Q	
	3.4×10^{-2}		Arbuckle (1983)	Q	
	3.6×10^{-2}		MacBean (2012a)	?	
		5400	Kühne et al. (2005)	?	
	8.0×10^{-3}		Yaws and Yang (1992)	?	92
	2.3×10^{-2}		Abraham et al. (1990)	?	
naphthalene-d8 $C_{10}D_8$ [1146-65-2]	3.5×10^{-2}	5300	Hiatt (2013)	M	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1-methylnaphthalene	2.2×10^{-2}	6100	Fogg and Sangster (2003)	L	
$C_{10}H_7CH_3$	2.2×10^{-2}		Mackay and Shiu (1981)	L	
[90-12-0]	4.4×10^{-2}	5900	Hiatt (2013)	M	
	1.9×10^{-2}		Altschuh et al. (1999)	M	
	2.1×10^{-2}	6100	Bamford et al. (1999a)	M	
	4.1×10^{-2}		Shiu and Mackay (1997)	M	
	1.6×10^{-2}		Fendinger and Glotfelty (1990)	M	
	3.8×10^{-2}		Mackay and Shiu (1981)	M	
	2.8×10^{-2}	4900	Schwarz and Wasik (1977)	M	
	2.2×10^{-2}		Mackay et al. (2006a)	V	
	2.2×10^{-2}		Shiu and Ma (2000)	V	
	2.2×10^{-2}		Shiu and Mackay (1997)	V	
	2.5×10^{-2}		Abraham et al. (1994a)	V	
	2.5×10^{-2}		Eastcott et al. (1988)	V	
	2.2×10^{-2}		Cabani et al. (1981)	V	
	2.8×10^{-2}		Hilal et al. (2008)	Q	
		5500	Kühne et al. (2005)	Q	
	2.3×10^{-2}		Nirmalakhandan and Speece (1988a)	Q	
		5700	Kühne et al. (2005)	?	
	2.7×10^{-2}		Yaws and Yang (1992)	?	92
1-methylnaphthalene-d10	4.6×10^{-2}	5400	Hiatt (2013)	M	
$C_{10}D_7CD_3$					
[38072-94-5]					
2-methylnaphthalene	1.8×10^{-2}	5600	Fogg and Sangster (2003)	L	
$C_{10}H_7CH_3$	3.5×10^{-2}	5500	Hiatt (2013)	M	
[91-57-6]	1.6×10^{-2}		Altschuh et al. (1999)	M	
	1.9×10^{-2}	5400	Bamford et al. (1999a)	M	
	2.2×10^{-2}		De Maagd et al. (1998)	M	9
	5.0×10^{-5}	1200	Hansen et al. (1993)	M	105
	3.1×10^{-2}		Fendinger and Glotfelty (1990)	M	
	2.0×10^{-2}		Mackay et al. (2006a)	V	
	2.6×10^{-2}		De Maagd et al. (1998)	V	9
	2.0×10^{-2}		Shiu and Mackay (1997)	V	
	2.4×10^{-2}		Meylan and Howard (1991)	V	
	2.0×10^{-2}		Eastcott et al. (1988)	V	
	2.4×10^{-2}		Mackay and Shiu (1981)	V	
	2.0×10^{-2}		Mackay et al. (1992b)	X	142
	2.6×10^{-2}		Hilal et al. (2008)	Q	
		5500	Kühne et al. (2005)	Q	
	1.7×10^{-2}		Meylan and Howard (1991)	Q	
		5700	Kühne et al. (2005)	?	
	2.0×10^{-2}		Yaws and Yang (1992)	?	92
			Shiu and Ma (2000)	W	140
1-ethylnaphthalene	2.6×10^{-2}		Mackay and Shiu (1981)	L	
$C_{10}H_7C_2H_5$	1.4×10^{-2}		Altschuh et al. (1999)	M	
[1127-76-0]	2.2×10^{-2}	4800	Schwarz and Wasik (1977)	M	
	2.6×10^{-2}		Mackay et al. (2006a)	V	
	2.7×10^{-2}		Eastcott et al. (1988)	V	
	2.3×10^{-2}		Cabani et al. (1981)	V	
	2.6×10^{-2}		Mackay et al. (1992b)	X	142
	2.8×10^{-2}		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	2.2×10^{-1}		Nirmalakhandan et al. (1997)	Q	
	2.7×10^{-2}		Yaws and Yang (1992)	?	92
2-ethylnaphthalene	1.2×10^{-2}		Mackay and Shiu (1981)	L	
$C_{10}H_7C_2H_5$	1.8×10^{-2}		Altschuh et al. (1999)	M	
[939-27-5]	1.3×10^{-2}		Mackay et al. (2006a)	V	
	1.6×10^{-2}		Eastcott et al. (1988)	V	
	1.3×10^{-2}		Mackay et al. (1992b)	X	142
	1.9×10^{-2}		Hilal et al. (2008)	Q	
	1.6×10^{-2}		Yaws and Yang (1992)	?	92
1,3-dimethylnaphthalene	2.6×10^{-2}		Cabani et al. (1981)	V	
$C_{12}H_{12}$	2.9×10^{-2}		Hilal et al. (2008)	Q	
[575-41-7]	1.9×10^{-1}		Nirmalakhandan et al. (1997)	Q	
	1.4×10^{-2}		Yaws and Yang (1992)	?	92
1,4-dimethylnaphthalene	3.2×10^{-2}		Mackay et al. (2006a)	V	
$C_{12}H_{12}$	4.7×10^{-2}		Cabani et al. (1981)	V	
[571-58-4]	4.4×10^{-2}		Hilal et al. (2008)	Q	
	1.9×10^{-1}		Nirmalakhandan et al. (1997)	Q	
	2.0×10^{-2}		Yaws and Yang (1992)	?	92
1,5-dimethylnaphthalene	2.8×10^{-2}		Shiu and Mackay (1997)	M	
$C_{12}H_{12}$	3.3×10^{-2}		Hilal et al. (2008)	Q	
[571-61-9]	1.1×10^{-1}		Nirmalakhandan and Speece (1988a)	Q	
	1.6×10^{-2}		Yaws and Yang (1992)	?	92
1,6-dimethylnaphthalene $C_{12}H_{12}$ [575-43-9]	2.3×10^{-2}		HSDB (2015)	Q	38
2,3-dimethylnaphthalene	1.6×10^{-2}		Mackay et al. (2006a)	V	
$C_{12}H_{12}$	6.4×10^{-2}		Eastcott et al. (1988)	V	
[581-40-8]	4.4×10^{-2}		Cabani et al. (1981)	V	
	1.1×10^{-2}		Meylan and Howard (1991)	C	
	3.6×10^{-2}		Hilal et al. (2008)	Q	
	1.3×10^{-1}		Nirmalakhandan et al. (1997)	Q	
	1.5×10^{-2}		Meylan and Howard (1991)	Q	
	1.7×10^{-2}		Yaws and Yang (1992)	?	92
2,6-dimethylnaphthalene	7.8×10^{-3}		Mackay et al. (2006a)	V	
$C_{12}H_{12}$	6.2×10^{-2}		Eastcott et al. (1988)	V	
[581-42-0]	3.4×10^{-2}		Cabani et al. (1981)	V	
	3.2×10^{-2}		Hilal et al. (2008)	Q	
	1.9×10^{-1}		Nirmalakhandan et al. (1997)	Q	
	8.2×10^{-3}		Yaws and Yang (1992)	?	92
1,4,5-trimethylnaphthalene	1.8×10^{-2}		Mackay et al. (2006a)	V	
$C_{13}H_{14}$	4.3×10^{-2}		Eastcott et al. (1988)	V	
[2131-41-1]					
2-(1-methylethyl)naphthalene $C_{13}H_{14}$ [2027-17-0]	1.2×10^{-2}		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1,2-bis(isopropyl)naphthalene $C_{16}H_{20}$ (diisopropylnaphthalene) [38640-62-9]	7.8×10^{-3}		HSDB (2015)	V	
(E)-stilbene $C_{14}H_{12}$ (*trans*-1,2-diphenylethene) [103-30-0]	1.4×10^{-2} 2.5×10^{-2} 2.5×10^{-2}		HSDB (2015) Mackay et al. (2006a) Mackay et al. (1992b)	V V X	 142
acenaphthene $C_{12}H_{10}$ [83-32-9]	7.2×10^{-2} 7.0×10^{-2} 5.5×10^{-2} 4.2×10^{-2} 2.6×10^{-1} 5.4×10^{-2} 6.2×10^{-2} 1.1×10^{-1} 1.6×10^{-1} 6.4×10^{-3} 4.1×10^{-2} 6.8×10^{-2} 8.2×10^{-2} 8.2×10^{-2} 8.2×10^{-2} 1.2×10^{-2} 9.5×10^{-2} 8.2×10^{-2} 1.2×10^{-1} 3.4×10^{-2} 4.1×10^{-2} 5.2×10^{-2} 6.4×10^{-2} 4.1×10^{-2} 4.0×10^{-2} 4.1×10^{-2} 2.2×10^{-1} 1.1×10^{-1} 7.9×10^{-2} 6600	 6500 6600 2900 2800 5500 6600	Ma et al. (2010) Ma et al. (2010) Fogg and Sangster (2003) Mackay and Shiu (1981) Lee et al. (2012) Bamford et al. (1999a) Shiu and Mackay (1997) Zhang and Pawliszyn (1993) Fendinger and Glotfelty (1990) Mackay and Shiu (1981) Warner et al. (1980) Mackay et al. (1979) Mackay et al. (2006a) Shiu and Ma (2000) Shiu and Mackay (1997) Hwang et al. (1992) Eastcott et al. (1988) Cabani et al. (1981) Hine and Mookerjee (1975) Paasivirta et al. (1999) Goldstein (1982) McCarty (1980) HSDB (2015) Smith et al. (1993) Ryan et al. (1988) Shen (1982) Hilal et al. (2008) Kühne et al. (2005) Nirmalakhandan and Speece (1988a) Arbuckle (1983) Kühne et al. (2005)	L L L L M M M M M M M M V V V V V V V T X X C C C C Q Q Q Q ?	143 144 116 145
acenaphthylene $C_{12}H_8$ [208-96-8]	8.2×10^{-2} 1.0×10^{-1} 9.1×10^{-2} 7.9×10^{-2} 8.8×10^{-2} 8.7×10^{-2} 8.7×10^{-1} 1.2×10^{-1} 1.2×10^{-1} 1.2×10^{-1} 8.7×10^{-2} 8.4×10^{-2}	 6700 6600 5000 	Ma et al. (2010) Ma et al. (2010) Fogg and Sangster (2003) Bamford et al. (1999a) Fendinger and Glotfelty (1990) Warner et al. (1980) HSDB (2015) Mackay et al. (2006a) Shiu and Mackay (1997) Paasivirta et al. (1999) Smith et al. (1993) Ryan et al. (1988)	L L L M M M V V V T C C	143 144

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	8.7×10^{-2}		Shen (1982)	C	
	1.1×10^{-1}		Hilal et al. (2008)	Q	
		5600	Kühne et al. (2005)	Q	
		6600	Kühne et al. (2005)	?	
			Shiu and Ma (2000)	W	140
phenanthrene	2.3×10^{-1}		Ma et al. (2010)	L	143
$C_{14}H_{10}$	2.3×10^{-1}		Ma et al. (2010)	L	144
[85-01-8]	2.3×10^{-1}	4200	Fogg and Sangster (2003)	L	
	2.5×10^{-1}		Mackay and Shiu (1981)	L	
	1.8×10^{-1}		Lee et al. (2012)	M	
	2.7×10^{-1}	7700	Odabasi et al. (2006)	M	
	2.3×10^{-1}	6000	Bamford et al. (1999a)	M	
	1.6×10^{-1}	7600	Bamford et al. (1999b)	M	
	3.4×10^{-1}		De Maagd et al. (1998)	M	9
	2.8×10^{-1}		Shiu and Mackay (1997)	M	
	2.1×10^{-1}	3800	Alaee et al. (1996)	M	
	2.5×10^{-1}		Zhang and Pawliszyn (1993)	M	
	4.2×10^{-1}		Fendinger and Glotfelty (1990)	M	
	2.7×10^{-1}		Mackay and Shiu (1981)	M	
	2.5×10^{-1}		Mackay et al. (1979)	M	
	1.8×10^{-1}		Southworth (1979)	M	
	3.1×10^{-1}		Mackay et al. (2006a)	V	
	3.1×10^{-1}		Shiu and Ma (2000)	V	
	3.8×10^{-1}		De Maagd et al. (1998)	V	9
	3.1×10^{-1}		Shiu and Mackay (1997)	V	
	3.2×10^{-2}		Hwang et al. (1992)	V	
	2.8×10^{-1}		Eastcott et al. (1988)	V	
	3.2×10^{-1}		Cabani et al. (1981)	V	
	2.0×10^{-1}		Southworth (1979)	V	
	3.9×10^{-1}		Hine and Mookerjee (1975)	V	
	9.3×10^{-2}	4900	Paasivirta et al. (1999)	T	
	9.3×10^{-2}	4700	Goldstein (1982)	X	116
	7.6×10^{-2}		McCarty (1980)	X	145
	2.5×10^{-1}		Smith et al. (1993)	C	113
	2.5×10^{-1}		Ryan et al. (1988)	C	
	2.6×10^{-1}		Hilal et al. (2008)	Q	
		4800	Kühne et al. (2005)	Q	
	4.8×10^{-1}		Nirmalakhandan and Speece (1988a)	Q	
	2.6×10^{-1}		Arbuckle (1983)	Q	
		5300	Kühne et al. (2005)	?	
	2.7×10^{-1}		Abraham et al. (1990)	?	
1-methylphenanthrene	2.0×10^{-1}	4600	Bamford et al. (1999a)	M	
$C_{15}H_{12}$	3.3×10^{-1}		Hilal et al. (2008)	Q	
[832-69-9]		5200	Kühne et al. (2005)	Q	
		4600	Kühne et al. (2005)	?	
9,10-dihydrophenanthrene	1.2×10^{-1}	7500	Reza and Trejo (2004)	M	
$C_{14}H_{12}$	4.1×10^{-2}		Hilal et al. (2008)	Q	
[776-35-2]		5400	Kühne et al. (2005)	Q	
		7500	Kühne et al. (2005)	?	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,3-benzindene	1.1×10^{-1}		Ma et al. (2010)	L	143
$C_{13}H_{10}$	1.1×10^{-1}		Ma et al. (2010)	L	144
(fluorene)	1.1×10^{-1}	6000	Fogg and Sangster (2003)	L	
[86-73-7]	1.2×10^{-1}		Mackay and Shiu (1981)	L	
	3.2×10^{-1}		Lee et al. (2012)	M	
	1.0×10^{-1}	6200	Bamford et al. (1999a)	M	
	7.9×10^{-2}	7400	Bamford et al. (1999b)	M	
	1.5×10^{-1}		De Maagd et al. (1998)	M	9
	1.0×10^{-1}		Shiu and Mackay (1997)	M	
	1.6×10^{-1}		Fendinger and Glotfelty (1990)	M	
	9.9×10^{-2}		Mackay and Shiu (1981)	M	
	8.4×10^{-2}		Warner et al. (1980)	M	
	1.3×10^{-1}		Mackay et al. (2006a)	V	
	1.3×10^{-1}		Shiu and Ma (2000)	V	
	1.7×10^{-1}		De Maagd et al. (1998)	V	9
	1.3×10^{-1}		Shiu and Mackay (1997)	V	
	1.5×10^{-2}		Hwang et al. (1992)	V	
	1.1×10^{-1}		Eastcott et al. (1988)	V	
	1.3×10^{-1}		Cabani et al. (1981)	V	
	2.3×10^{-2}	3700	Paasivirta et al. (1999)	T	
	8.4×10^{-2}	3000	Goldstein (1982)	X	116
	4.7×10^{-2}		McCarty (1980)	X	145
	9.9×10^{-2}		HSDB (2015)	C	
	8.4×10^{-2}		Smith et al. (1993)	C	
	8.4×10^{-2}		Ryan et al. (1988)	C	
	8.4×10^{-2}		Shen (1982)	C	
	9.2×10^{-2}		Hilal et al. (2008)	Q	
		5100	Kühne et al. (2005)	Q	
	2.0×10^{-1}		Nirmalakhandan and Speece (1988a)	Q	
		5400	Kühne et al. (2005)	?	
	1.2×10^{-1}		Abraham et al. (1990)	?	
benzo[a]fluorene	3.7×10^{-1}	4400	Bamford et al. (1999a)	M	
$C_{17}H_{12}$		6300	Kühne et al. (2005)	Q	
[238-84-6]		4400	Kühne et al. (2005)	?	
			Shiu and Ma (2000)	W	140
anthracene	2.0×10^{-1}		Ma et al. (2010)	L	143
$C_{14}H_{10}$	2.0×10^{-1}		Ma et al. (2010)	L	144
[120-12-7]	1.7×10^{-1}	5700	Fogg and Sangster (2003)	L	
	1.7×10^{-1}		Mackay and Shiu (1981)	L	
	1.6×10^{-1}		Lee et al. (2012)	M	
	2.3×10^{-1}	5600	Reza and Trejo (2004)	M	
	1.8×10^{-1}	6000	Bamford et al. (1999a)	M	
	1.5×10^{-1}	6500	Bamford et al. (1999b)	M	
	1.3×10^{-1}		Shiu and Mackay (1997)	M	
	2.0×10^{-1}	3500	Alaee et al. (1996)	M	
	1.1×10^{-1}		Zhang and Pawliszyn (1993)	M	
	5.1×10^{-1}		Fendinger and Glotfelty (1990)	M	
	2.7×10^{-1}		Webster et al. (1985)	M	
	1.4×10^{-2}		Mackay and Shiu (1981)	M	
	1.5×10^{-1}		Southworth (1979)	M	
	2.5×10^{-1}		Mackay et al. (2006a)	V	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	2.5×10^{-1}		Shiu and Ma (2000)	V	
	2.5×10^{-1}		Shiu and Mackay (1997)	V	
	3.0×10^{-2}		Hwang et al. (1992)	V	
	6.1×10^{-1}		Eastcott et al. (1988)	V	
	5.1×10^{-1}		Cabani et al. (1981)	V	
	3.4×10^{-2}		Southworth (1979)	V	
	5.6×10^{-1}		Hine and Mookerjee (1975)	V	
	4.6×10^{-3}	3100	Paasivirta et al. (1999)	T	
	3.5×10^{-1}	4000	Goldstein (1982)	X	116
	7.0×10^{-3}		McCarty (1980)	X	145
	1.1×10^{-1}		Smith et al. (1993)	C	
	3.7×10^{-2}		Ryan et al. (1988)	C	
	1.0×10^{-1}		Smith et al. (1981a)	C	
	3.3×10^{-1}		Hilal et al. (2008)	Q	
		6400	Kühne et al. (2005)	Q	
	9.0×10^{-3}		Nirmalakhandan and Speece (1988a)	Q	
		5100	Kühne et al. (2005)	?	
9-methylanthracene	6.1×10^{-1}		Mackay et al. (2006a)	V	
$C_{15}H_{12}$	9.4×10^{-3}		Eastcott et al. (1988)	V	
[779-02-2]	4.2×10^{-1}		Hilal et al. (2008)	Q	
9,10-dimethylanthracene	1.8		Mackay et al. (2006a)	V	
$C_{16}H_{14}$	3.4×10^{-1}		HSDB (2015)	Q	38
[781-43-1]					
pyrene	7.5×10^{-1}		Ma et al. (2010)	L	143
$C_{16}H_{10}$	7.5×10^{-1}		Ma et al. (2010)	L	144
[129-00-0]	6.6×10^{-1}	4800	Fogg and Sangster (2003)	L	
	8.3×10^{-1}		Mackay and Shiu (1981)	L	
	4.1×10^{-1}		Lee et al. (2012)	M	
	8.5×10^{-1}	6300	Reza and Trejo (2004)	M	
	2.0		Altschuh et al. (1999)	M	
	5.9×10^{-1}	5500	Bamford et al. (1999a)	M	
	5.0×10^{-1}		De Maagd et al. (1998)	M	9
	1.1		De Maagd et al. (1998)	M	9
	8.3×10^{-1}		Shiu and Mackay (1997)	M	
	9.1×10^{-1}		Mackay and Shiu (1981)	M	
	5.3×10^{-1}		Southworth (1979)	M	
	1.1		Mackay et al. (2006a)	V	
	1.1		Shiu and Ma (2000)	V	
	1.4		De Maagd et al. (1998)	V	9
	1.1		Shiu and Mackay (1997)	V	
	3.6×10^{-2}		Hwang et al. (1992)	V	
	1.1		Eastcott et al. (1988)	V	
	7.6×10^{-1}		Cabani et al. (1981)	V	
	9.4×10^{-1}		Southworth (1979)	V	
	1.4×10^{-1}	5700	Paasivirta et al. (1999)	T	
	1.9		Smith et al. (1993)	C	146
	1.4×10^{-3}		Ryan et al. (1988)	C	
	7.6		Petrasek et al. (1983)	C	
	2.3×10^{-1}		Hilal et al. (2008)	Q	
		5200	Kühne et al. (2005)	Q	
	5.4×10^{-1}		Nirmalakhandan and Speece (1988a)	Q	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
		5500	Kühne et al. (2005)	?	
	9.0×10^{-1}		Abraham et al. (1990)	?	
1-methylpyrene $C_{17}H_{12}$ [2381-21-7]	3.1		HSDB (2015)	Q	38
2-methylpyrene $C_{17}H_{12}$ [3442-78-2]	3.1		HSDB (2015)	Q	38
2,7-dimethylpyrene $C_{18}H_{14}$ [15679-24-0]	2.9		HSDB (2015)	Q	38
chrysene $C_{18}H_{12}$ [218-01-9]	2.3		Ma et al. (2010)	L	143
	2.7		Ma et al. (2010)	L	144
	2.1		Lee et al. (2012)	M	
	1.9	13000	Bamford et al. (1999a)	M	
	9.4		Zhang and Pawliszyn (1993)	M	
	1.0×10^{1}		HSDB (2015)	V	
	1.5×10^{1}		Mackay et al. (2006a)	V	
	1.5×10^{1}		Shiu and Ma (2000)	V	
	2.2		Eastcott et al. (1988)	V	
	2.0×10^{-1}	6400	Paasivirta et al. (1999)	T	
	9.4		Smith et al. (1993)	C	
	4.6×10^{-3}		Ryan et al. (1988)	C	
	6.6		Petrasek et al. (1983)	C	
	3.6		Hilal et al. (2008)	Q	
naphthacene $C_{18}H_{12}$ (2,3-benzanthracene) [92-24-0]	3.6×10^{2}		Mackay et al. (2006a)	V	
	2.5×10^{2}		Mackay et al. (1992b)	X	142
	4.2		Ferreira (2001)	Q	9
triphenylene $C_{18}H_{12}$ (benzo[l]phenanthrene) [217-59-4]			Mackay et al. (2006a)	V	112
	1.0×10^{2}		Mackay et al. (1992b)	X	142
	2.9		Hilal et al. (2008)	Q	
	3.1		Ferreira (2001)	Q	9
benzo[jk]fluorene $C_{16}H_{10}$ (fluoranthene) [206-44-0]	6.9×10^{-1}		Ma et al. (2010)	L	143
	7.5×10^{-1}		Ma et al. (2010)	L	144
	5.4×10^{-1}	4800	Fogg and Sangster (2003)	L	
	4.5×10^{-3}		Mackay and Shiu (1981)	L	
	3.4×10^{-1}		Lee et al. (2012)	M	
	5.1×10^{-1}	4900	Bamford et al. (1999a)	M	
	9.1×10^{-1}		De Maagd et al. (1998)	M	9
	1.1	6900	ten Hulscher et al. (1992)	M	
	1.9	8700	Abou-Naccoul et al. (2014)	V	
	1.0		Mackay et al. (2006a)	V	
	1.0		Shiu and Ma (2000)	V	
	1.4		De Maagd et al. (1998)	V	9
	1.0		Shiu and Mackay (1997)	V	
	2.1		McLachlan et al. (1990)	V	147
	1.1		Eastcott et al. (1988)	V	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	4.0×10^{-1}	5400	Paasivirta et al. (1999)	T	
	1.5		Smith et al. (1993)	C	
	1.0		Ryan et al. (1988)	C	
	9.9×10^{-1}		Petrasek et al. (1983)	C	
	4.4×10^{-1}		Hilal et al. (2008)	Q	
		5100	Kühne et al. (2005)	Q	
		5000	Kühne et al. (2005)	?	
benz[a]anthracene $C_{18}H_{12}$ [56-55-3]	1.4		Ma et al. (2010)	L	143
	1.6		Ma et al. (2010)	L	144
	9.0×10^{-1}	7900	Fogg and Sangster (2003)	L	
	1.7		Lee et al. (2012)	M	
	8.2×10^{-1}	8300	Bamford et al. (1999a)	M	
	9.9		Zhang and Pawliszyn (1993)	M	
	1.2		Southworth (1979)	M	
	1.7		Mackay et al. (2006a)	V	
	2.4		Eastcott et al. (1988)	V	
	4.0		Southworth (1979)	V	
	1.5×10^{-1}	6100	Paasivirta et al. (1999)	T	
	8.5		Smith et al. (1993)	C	27
	9.8		Ryan et al. (1988)	C	
	8.2×10^{1}		Petrasek et al. (1983)	C	
	4.4		Hilal et al. (2008)	Q	
		6100	Kühne et al. (2005)	Q	
	5.6		Ferreira (2001)	Q	9
		8300	Kühne et al. (2005)	?	
			Shiu and Ma (2000)	W	140
7-methylbenz[a]anthracene $C_{19}H_{14}$ [2541-69-7]	5.2		HSDB (2015)	Q	38
10-methylbenz[a]anthracene $C_{19}H_{14}$ [2381-15-9]	5.2		HSDB (2015)	Q	38
12-methylbenz[a]anthracene $C_{19}H_{14}$ [2422-79-9]	5.2		HSDB (2015)	Q	38
7,12-dimethyl-benz[a]anthracene $C_{20}H_{16}$ [57-97-6]	5.1×10^{3}		Mackay et al. (2006a)	V	
	4.9		HSDB (2015)	Q	38
9,10-dimethyl-benz[a]anthracene $C_{20}H_{16}$ [58429-99-5]			Mackay et al. (2006a)	V	112
20-methylcholanthrene $C_{21}H_{16}$ [56-49-5]	1.9		HSDB (2015)	V	
			Mackay et al. (2006a)	V	112

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
benzo[b]fluoranthene	1.5×10^{1}		Ma et al. (2010)	L	143
$C_{20}H_{12}$	1.5×10^{1}		Ma et al. (2010)	L	144
[205-99-2]	1.5×10^{1}	5400	ten Hulscher et al. (1992)	M	
	1.4×10^{1}	7500	Paasivirta et al. (1999)	T	
	8.3×10^{-1}		Smith et al. (1993)	C	
	5.6		Hilal et al. (2008)	Q	
		4700	Kühne et al. (2005)	Q	
		5400	Kühne et al. (2005)	?	
benzo[k]fluoranthene	1.7×10^{1}		Ma et al. (2010)	L	143
$C_{20}H_{12}$	1.8×10^{1}		Ma et al. (2010)	L	144
[207-08-9]	1.0×10^{1}		Lee et al. (2012)	M	
	1.7×10^{1}	5900	ten Hulscher et al. (1992)	M	
			Mackay et al. (2006a)	V	112
	8.3×10^{1}		De Maagd et al. (1998)	V	9
	6.2×10^{1}		Shiu and Mackay (1997)	V	
	1.5	6900	Paasivirta et al. (1999)	T	
	9.6×10^{-3}	1900	Goldstein (1982)	X	116
	2.5×10^{-1}		Smith et al. (1993)	C	
	8.0		Hilal et al. (2008)	Q	
		6300	Kühne et al. (2005)	Q	
		5800	Kühne et al. (2005)	?	
benzo[a]pyrene	2.0×10^{1}		Ma et al. (2010)	L	143
$C_{20}H_{12}$	1.3×10^{1}		Ma et al. (2010)	L	144
(benz[a]pyrene)	6.2		Lee et al. (2012)	M	
[50-32-8]	1.3×10^{1}		Altschuh et al. (1999)	M	
	2.2×10^{1}	4700	ten Hulscher et al. (1992)	M	
	2.2×10^{1}		Mackay et al. (2006a)	V	
	2.9×10^{1}		De Maagd et al. (1998)	V	9
	2.2×10^{1}		Shiu and Mackay (1997)	V	
	1.3×10^{2}		McLachlan et al. (1990)	V	147
	1.8×10^{1}		Eastcott et al. (1988)	V	
	1.9×10^{1}		Southworth (1979)	V	
	8.2×10^{-1}	8200	Paasivirta et al. (1999)	T	
	1.6×10^{-3}	110	Goldstein (1982)	X	116
	2.0×10^{1}		Smith et al. (1993)	C	
	8.2×10^{-4}		Ryan et al. (1988)	C	
	2.9		Hilal et al. (2008)	Q	
		4900	Kühne et al. (2005)	Q	
		4700	Kühne et al. (2005)	?	
			Shiu and Ma (2000)	W	140
benzo[e]pyrene	3.3×10^{1}		HSDB (2015)	V	
$C_{20}H_{12}$	2.1×10^{1}		Mackay et al. (2006a)	V	
[192-97-2]	2.7	8300	Paasivirta et al. (1999)	T	
	1.5×10^{1}		Ferreira (2001)	Q	9
			Shiu and Ma (2000)	W	140
dibenzo[a,e]pyrene	7.0×10^{2}		HSDB (2015)	Q	38
$C_{24}H_{14}$					
[192-65-4]					

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
dibenzo[a,h]pyrene	7.0×10^{2}		HSDB (2015)	Q	38
$C_{24}H_{14}$					
[189-64-0]					
dibenzo[a,i]pyrene	7.0×10^{2}		HSDB (2015)	Q	38
$C_{24}H_{14}$					
[189-55-9]					
perylene			Mackay et al. (2006a)	V	112
$C_{20}H_{12}$	2.3		Riederer (1990)	V	
(dibenz[de,kl]anthracene)	2.5×10^{-1}	6300	Paasivirta et al. (1999)	T	
[198-55-0]	3.3×10^{2}		Mackay et al. (1992b)	X	142
	2.3		Hilal et al. (2008)	Q	
	1.1×10^{1}		Ferreira (2001)	Q	9
dibenz[a,h]anthracene	1.8×10^{2}	12000	Abou-Naccoul et al. (2014)	V	
$C_{22}H_{14}$	5.8×10^{3}		Mackay et al. (2006a)	V	
[53-70-3]	1.3×10^{2}		Eastcott et al. (1988)	V	
	1.2	7800	Paasivirta et al. (1999)	T	
	1.4×10^{2}		Smith et al. (1993)	C	
	1.4×10^{2}		HSDB (2015)	Q	38
	1.2×10^{1}		Hilal et al. (2008)	Q	
	8.3×10^{1}		Ferreira (2001)	Q	9
indeno[1,2,3-cd]pyrene	2.9×10^{1}		Ma et al. (2010)	L	143
$C_{22}H_{12}$	2.0×10^{1}		Ma et al. (2010)	L	144
[193-39-5]	2.8×10^{1}	3600	ten Hulscher et al. (1992)	M	
	2.5	7400	Paasivirta et al. (1999)	T	
	1.4×10^{2}		Smith et al. (1993)	C	
	5.0		Hilal et al. (2008)	Q	
		5100	Kühne et al. (2005)	Q	
		3600	Kühne et al. (2005)	?	
benzo[ghi]perylene	3.0×10^{1}		Ma et al. (2010)	L	143
$C_{22}H_{12}$	2.4×10^{1}		Ma et al. (2010)	L	144
[191-24-2]	3.0×10^{1}	3200	ten Hulscher et al. (1992)	M	
	1.8×10^{1}		De Maagd et al. (1998)	V	9
	1.3×10^{1}		Shiu and Mackay (1997)	V	
	6.9×10^{1}		Eastcott et al. (1988)	V	
	4.0	9200	Paasivirta et al. (1999)	T	
	1.3×10^{1}		Mackay et al. (1992b)	X	142
	1.8×10^{2}		Smith et al. (1993)	C	
	2.6		Hilal et al. (2008)	Q	
		3700	Kühne et al. (2005)	Q	
		3300	Kühne et al. (2005)	?	
coronene			Mackay et al. (2006a)	V	112
$C_{24}H_{12}$					
[191-07-1]					
benzo[b]triphenylene	1.9×10^{1}	8600	Abou-Naccoul et al. (2014)	V	
$C_{22}H_{14}$	4.4×10^{3}		Mackay et al. (2006a)	V	
(dibenz[a,c]anthracene)	1.9×10^{1}		Hilal et al. (2008)	Q	
[215-58-7]	1.4×10^{2}		Ferreira (2001)	Q	9

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
dibenz[a,j]anthracene	8.6×10^{1}		Hilal et al. (2008)	Q	
$C_{22}H_{14}$	8.3×10^{1}		Ferreira (2001)	Q	9
[224-41-9]					
picene	6.2		Hilal et al. (2008)	Q	
$C_{22}H_{14}$	7.7×10^{1}		Ferreira (2001)	Q	9
[213-46-7]					
1,2-benzfluoranthene	6.9		Hilal et al. (2008)	Q	
$C_{20}H_{12}$					
[203-33-8]					
1,2,3,4-tetrahydronaphthalene	5.1×10^{-3}	5400	Ashworth et al. (1988)	M	103
$C_{10}H_{12}$	2.1×10^{-3}		Mackay et al. (1993)	V	
(tetralin)	5.8×10^{-3}		HSDB (2015)	Q	38
[119-64-2]	1.2×10^{-2}		Hilal et al. (2008)	Q	
		4900	Kühne et al. (2005)	Q	
		5300	Kühne et al. (2005)	?	
indane	4.3×10^{-3}		Mackay et al. (2006a)	V	
$C_{9}H_{10}$	4.7×10^{-3}		Abraham et al. (1994a)	V	
[496-11-7]	1.2×10^{-2}		Hilal et al. (2008)	Q	
	5.8×10^{-3}		Nirmalakhandan et al. (1997)	Q	
2,3-dihydro-1,1,3,3,5-pentamethyl-1H-indene	7.5×10^{-4}		Zhang et al. (2010)	Q	107, 108
$C_{14}H_{20}$	1.9×10^{-3}		Zhang et al. (2010)	Q	107, 109
[81-03-8]	2.1×10^{-3}		Zhang et al. (2010)	Q	107, 110
	3.9×10^{-4}		Zhang et al. (2010)	Q	107, 111
1,2,3,4-tetrahydro-1,1,3,4,4,6-hexamethylnaphthalene	4.2×10^{-4}		Zhang et al. (2010)	Q	107, 108
$C_{16}H_{24}$	1.3×10^{-3}		Zhang et al. (2010)	Q	107, 109
[2084-69-7]	3.2×10^{-3}		Zhang et al. (2010)	Q	107, 110
	2.7×10^{-4}		Zhang et al. (2010)	Q	107, 111
[2.2]paracyclophane	2.9×10^{-2}		Zhang et al. (2010)	Q	107, 108
$C_{16}H_{16}$	8.4×10^{-2}		Zhang et al. (2010)	Q	107, 109
[1633-22-3]	9.5×10^{-1}		Zhang et al. (2010)	Q	107, 110
	4.3×10^{-2}		Zhang et al. (2010)	Q	107, 111
1,2,3,4-tetrahydro-5-(1-phenylethyl)-naphthalene	1.6×10^{-2}		Zhang et al. (2010)	Q	107, 108
$C_{18}H_{20}$	1.0×10^{-1}		Zhang et al. (2010)	Q	107, 109
[60466-61-7]	2.0×10^{-1}		Zhang et al. (2010)	Q	107, 110
	2.9×10^{-2}		Zhang et al. (2010)	Q	107, 111
5-methylchrysene	5.2		HSDB (2015)	Q	38
$C_{19}H_{14}$					
[3697-24-3]					
benzo[j]fluoranthene	4.9×10^{1}		HSDB (2015)	Q	38
$C_{20}H_{12}$					
[205-82-3]					

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
benzo[c]chrysene $C_{22}H_{14}$ [194-69-4]	8.0×10^{1}		HSDB (2015)	Q	38
benzo[g]chrysene $C_{22}H_{14}$ [196-78-1]	8.0×10^{1}		HSDB (2015)	Q	38
dibenz[a,e]aceanthrylene $C_{24}H_{14}$ [5385-75-1]	7.0×10^{2}		HSDB (2015)	Q	38
dibenzo[b,k]chrysene $C_{26}H_{16}$ [217-54-9]	1.2×10^{3}		HSDB (2015)	Q	38

Organic species with oxygen (O)

Carbon oxides

carbon monoxide	9.7×10^{-6}	1300	Warneck and Williams (2012)	L	
CO	9.7×10^{-6}	1300	Sander et al. (2011)	L	
[630-08-0]	9.7×10^{-6}	1300	Sander et al. (2006)	L	
	9.7×10^{-6}	1300	Fernández-Prini et al. (2003)	L	1
	9.4×10^{-6}	1300	Wilhelm et al. (1977)	L	
	7.9×10^{-5}		Meadows and Spedding (1974)	M	
	7.9×10^{-6}	1400	Douglas (1967)	M	148
	9.7×10^{-6}	1500	Winkler (1901)	M	
	9.7×10^{-6}	1300	Cargill (1990)	X	3, 149
	9.8×10^{-6}	1300	Cargill (1990)	X	5
	8.7×10^{-6}		Yaws (1999)	?	
	9.4×10^{-6}	1600	Dean (1992)	?	6
	8.6×10^{-6}		Yaws and Yang (1992)	?	92
carbon dioxide	3.3×10^{-4}	2400	Sander et al. (2011)	L	
CO_2	3.3×10^{-4}	2400	Sander et al. (2006)	L	
[124-38-9]	3.3×10^{-4}	2300	Fernández-Prini et al. (2003)	L	1
	3.4×10^{-4}	2300	Carroll et al. (1991)	L	
	3.4×10^{-4}	2400	Crovetto (1991)	L	
	3.4×10^{-4}	2300	Yoo et al. (1986)	L	
	3.4×10^{-4}	2400	Edwards et al. (1978)	L	
	3.3×10^{-4}	2400	Wilhelm et al. (1977)	L	
	3.4×10^{-4}	2400	Weiss (1974)	L	
	3.6×10^{-4}	2200	Zheng et al. (1997)	M	
	3.5×10^{-4}	2400	Bohr (1899)	M	
	3.4×10^{-4}	2400	Chen et al. (1979)	R	
	3.1×10^{-4}	2400	Chameides (1984)	T	
	3.5×10^{-4}	2300	Scharlin (1996)	X	3
	3.4×10^{-4}		Perry and Chilton (1973)	X	10
	3.4×10^{-4}	2400	Lelieveld and Crutzen (1991)	C	
	3.4×10^{-4}	2400	Pandis and Seinfeld (1989)	C	
		2900	Kühne et al. (2005)	Q	
		2400	Kühne et al. (2005)	?	
	4.5×10^{-4}		Yaws (1999)	?	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	3.3×10^{-4}	2600	Dean (1992)	?	6
	4.5×10^{-4}		Yaws and Yang (1992)	?	92
	3.4×10^{-4}	2400	Seinfeld (1986)	?	7
	3.3×10^{-4}	2400	Hoffmann and Jacob (1984)	?	7
carbon suboxide C_3O_2 [504-64-3]	1.3×10^{-2}		Keßel (2011)	M	150
Alcohols (ROH)					
methanol CH_3OH [67-56-1]	2.0	5600	Sander et al. (2011)	L	151
	2.1	5300	Warneck (2006)	L	
	2.2	5200	Sander et al. (2006)	L	
	2.0	5500	Dohnal et al. (2006)	L	
	1.7	4500	Fogg and Sangster (2003)	L	
	3.6×10^{-2}		St-Pierre et al. (2014)	M	75
	2.1		Vitenberg and Dobryakov (2008)	M	
	7.8×10^{-1}		Helburn et al. (2008)	M	
	2.0	5600	Teja et al. (2001)	M	89, 130
	2.6	5900	Zhu et al. (2000)	M	
	2.0	5500	Gupta et al. (2000)	M	
	1.6		Altschuh et al. (1999)	M	
	2.2		Li and Carr (1993)	M	
	2.2	5200	Snider and Dawson (1985)	M	
	2.2		Rytting et al. (1978)	M	
	2.3		Burnett (1963)	M	
	2.2	5700	Glew and Moelwyn-Hughes (1953)	M	
	2.3		Butler et al. (1935)	M	152
	7.6×10^{-2}		Abraham and Acree (2007)	V	
	1.9		Hwang et al. (1992)	V	
	2.8		Riederer (1990)	V	
		5400	Abraham (1984)	V	
	1.6	5600	Schaffer and Daubert (1969)	X	116
	2.2		Gaffney and Senum (1984)	X	153
	2.1		Timmermans (1960)	X	154
	2.0		Hilal et al. (2008)	Q	
		6200	Kühne et al. (2005)	Q	
	1.5		Yaws et al. (1997)	Q	
	1.8		Nirmalakhandan and Speece (1988a)	Q	
	2.4		Taft et al. (1985)	Q	
		5000	Kühne et al. (2005)	?	
	1.9		Yaws (1999)	?	
	1.4		Yaws and Yang (1992)	?	92
	2.2		Abraham et al. (1990)	?	
ethanol C_2H_5OH [64-17-5]	1.9	6400	Sander et al. (2011)	L	
	1.9	6300	Warneck (2006)	L	
	2.0	6600	Sander et al. (2006)	L	
	1.8	6300	Dohnal et al. (2006)	L	
	1.7	5700	Fogg and Sangster (2003)	L	
	1.8		Vitenberg and Dobryakov (2008)	M	
	1.9	5800	Falabella et al. (2006)	M	89, 130
	1.9		Straver and de Loos (2005)	M	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
			Cheng et al. (2004)	M	123
	1.1		Ueberfeld et al. (2001)	M	
	1.8	5800	Gupta et al. (2000)	M	
	1.3		Altschuh et al. (1999)	M	
	1.9		Li and Carr (1993)	M	
	1.9		Park et al. (1987)	M	
	1.9	6600	Snider and Dawson (1985)	M	
	1.9		Rytting et al. (1978)	M	
	2.3		Rohrschneider (1973)	M	
	2.1		Burnett (1963)	M	
	1.9		Butler et al. (1935)	M	
	4.7×10^{-2}		Abraham and Acree (2007)	V	
	1.3		Hwang et al. (1992)	V	
		6300	Abraham (1984)	V	
	1.5	6400	Schaffer and Daubert (1969)	X	116
	2.0		Gaffney and Senum (1984)	X	153
	1.6		Timmermans (1960)	X	154
	1.1		Hilal et al. (2008)	Q	
		6500	Kühne et al. (2005)	Q	
	1.3		Yaws et al. (1997)	Q	
	1.6		Nirmalakhandan and Speece (1988a)	Q	
		6400	Kühne et al. (2005)	?	
	1.2		Yaws and Yang (1992)	?	92
	1.9		Abraham et al. (1990)	?	
1-propanol C_3H_7OH [71-23-8]	1.4	6900	Sander et al. (2011)	L	155
	1.3	7500	Sander et al. (2006)	L	
	1.4	6900	Dohnal et al. (2006)	L	
	1.4	6200	Fogg and Sangster (2003)	L	
	1.5		Vitenberg and Dobryakov (2008)	M	
	1.2	6200	Falabella et al. (2006)	M	89, 130
	1.5		Straver and de Loos (2005)	M	
	1.2	6200	Gupta et al. (2000)	M	
	2.7		Altschuh et al. (1999)	M	
	1.4		Li and Carr (1993)	M	
	1.3	7500	Snider and Dawson (1985)	M	
	1.5		Rytting et al. (1978)	M	
	1.6		Burnett (1963)	M	
	1.4		Butler et al. (1935)	M	152
	3.1×10^{-2}		Abraham and Acree (2007)	V	
		6900	Abraham (1984)	V	
	7.0×10^{-1}		Hilal et al. (2008)	Q	
		6900	Kühne et al. (2005)	Q	
	1.2		Yaws et al. (1997)	Q	
	1.2		Nirmalakhandan and Speece (1988a)	Q	
		7500	Kühne et al. (2005)	?	
	1.1		Yaws and Yang (1992)	?	92
	1.5		Abraham et al. (1990)	?	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2-propanol	1.3	7500	Sander et al. (2011)	L	
C_3H_7OH	1.3	7500	Sander et al. (2006)	L	
(isopropanol)	1.2	6200	Fogg and Sangster (2003)	L	
[67-63-0]	1.1	8400	Hiatt (2013)	M	
	6.8×10^{-1}		Helburn et al. (2008)	M	
			Cheng et al. (2004)	M	123
			Cheng et al. (2003)	M	123
	1.8×10^{-1}		Ayuttaya et al. (2001)	M	131
	1.0×10^{-3}		Ayuttaya et al. (2001)	M	132
	5.7×10^{-1}		Ayuttaya et al. (2001)	M	133
	1.1		Kim et al. (2000)	M	
	9.2×10^{-1}		Altschuh et al. (1999)	M	
	7.9×10^{-1}	5700	Kolb et al. (1992)	M	102
	1.2	7400	Snider and Dawson (1985)	M	
	1.2		Rytting et al. (1978)	M	
	1.2		Butler et al. (1935)	M	
	1.7		Hine and Weimar (1965)	R	
	4.3×10^{-1}		Hilal et al. (2008)	Q	
		6900	Kühne et al. (2005)	Q	
	8.9×10^{-1}		Yaws et al. (1997)	Q	
	1.1		Nirmalakhandan and Speece (1988a)	Q	
	1.3		Taft et al. (1985)	Q	
		6000	Kühne et al. (2005)	?	
	8.8×10^{-1}		Yaws and Yang (1992)	?	92
	1.2		Abraham et al. (1990)	?	
glycidol $C_3H_6O_2$ [556-52-5]	1.7×10^{3}		HSDB (2015)	Q	38
1-butanol	1.2	7500	Sander et al. (2011)	L	
C_4H_9OH	1.3	7200	Sander et al. (2006)	L	
[71-36-3]	1.2	7500	Dohnal et al. (2006)	L	
	1.1	6300	Fogg and Sangster (2003)	L	
	1.0	6800	Shunthirasingham et al. (2013)	M	
	1.3		Vitenberg and Dobryakov (2008)	M	
	1.1	6000	Lei et al. (2007)	M	156
	8.2×10^{-1}	6200	Falabella et al. (2006)	M	89, 130
	1.1		Kim et al. (2000)	M	
	8.2×10^{-1}	6200	Gupta et al. (2000)	M	
	1.2		Altschuh et al. (1999)	M	
	1.4×10^{-1}		Chaintreau et al. (1995)	M	
	1.1		Li and Carr (1993)	M	
	6.1×10^{-1}	5600	Kolb et al. (1992)	M	102
	1.2	7200	Snider and Dawson (1985)	M	
	5.3×10^{-1}		Friant and Suffet (1979)	M	23
	1.2		Rytting et al. (1978)	M	
	1.1		Amoore and Buttery (1978)	M	
	1.1		Buttery et al. (1969)	M	
	1.4		Burnett (1963)	M	
	1.2		Butler et al. (1935)	M	152
	1.1		Mackay et al. (2006c)	V	
	7.3×10^{-1}		Mackay et al. (1995)	V	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	8.3×10^{-1}		Hwang et al. (1992)	V	
		7400	Abraham (1984)	V	
	1.2		Amoore and Buttery (1978)	V	
	1.2		Butler et al. (1935)	V	
	5.6×10^{-1}		Hilal et al. (2008)	Q	
		7200	Kühne et al. (2005)	Q	
	1.1		Yaws et al. (1997)	Q	
	9.9×10^{-1}		Nirmalakhandan and Speece (1988a)	Q	
		6900	Kühne et al. (2005)	?	
	1.2		Abraham et al. (1990)	?	
	1.8		Mackay and Yeun (1983)	?	
2-butanol	1.1	7300	Sander et al. (2011)	L	
$C_4H_{10}O$	1.1	7300	Sander et al. (2006)	L	
(*sec*-butanol)	1.0	7400	Fogg and Sangster (2003)	L	
[78-92-2]	1.1	7300	Snider and Dawson (1985)	M	
	9.8×10^{-1}		Rytting et al. (1978)	M	
	9.6×10^{-1}		Butler et al. (1935)	M	
	1.1		Mackay et al. (2006c)	V	
	1.1		Mackay et al. (1995)	V	
	9.1×10^{-1}	7500	Cabani et al. (1975b)	T	
	3.9×10^{-1}		Hilal et al. (2008)	Q	
		7200	Kühne et al. (2005)	Q	
	1.2		Yaws et al. (1997)	Q	
	9.0×10^{-1}		Nirmalakhandan and Speece (1988a)	Q	
		7100	Kühne et al. (2005)	?	
	9.9×10^{-1}		Abraham et al. (1990)	?	
2-methyl-1-propanol	1.0		Sander et al. (2011)	L	
$C_4H_{10}O$	1.0		Sander et al. (2006)	L	
(isobutanol)	2.2×10^{-1}		Kim and Kim (2014)	M	
[78-83-1]			Cheng et al. (2004)	M	123
	1.1		Altschuh et al. (1999)	M	
	3.7×10^{-1}		Shiu and Mackay (1997)	M	
	1.0		Snider and Dawson (1985)	M	
	8.0×10^{-1}		Rytting et al. (1978)	M	
	8.3×10^{-1}		Butler et al. (1935)	M	
	7.3×10^{-1}		Mackay et al. (2006c)	V	
	7.3×10^{-1}		Shiu and Mackay (1997)	V	
	7.3×10^{-1}		Mackay et al. (1995)	V	
	5.1×10^{-1}		Hilal et al. (2008)	Q	
		7200	Kühne et al. (2005)	Q	
	8.3×10^{-1}		Yaws et al. (1997)	Q	
	8.4×10^{-1}		Nirmalakhandan and Speece (1988a)	Q	
		8100	Kühne et al. (2005)	?	
	8.0×10^{-1}		Abraham et al. (1990)	?	
	9.6×10^{-1}		Mackay and Yeun (1983)	?	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2-methyl-2-propanol	6.9×10^{-1}	8300	Sander et al. (2011)	L	
$C_4H_{10}O$	6.9×10^{-1}	8300	Sander et al. (2006)	L	
(*tert*-butanol)	1.4	7900	Hiatt (2013)	M	
[75-65-0]	1.1		Altschuh et al. (1999)	M	
			Koga (1995)	M	157
	6.8×10^{-1}	8300	Snider and Dawson (1985)	M	
	7.6×10^{-1}		Rytting et al. (1978)	M	
	8.3×10^{-1}		Butler et al. (1935)	M	
	8.0×10^{-1}	6500	Pankow et al. (1996)	C	
	2.2×10^{-1}		Hilal et al. (2008)	Q	
		7200	Kühne et al. (2005)	Q	
	7.3×10^{-1}		Nirmalakhandan et al. (1997)	Q	
	3.0×10^{-1}		Yaws et al. (1997)	Q	
	7.0×10^{-1}		Nirmalakhandan and Speece (1988a)	Q	
		8300	Kühne et al. (2005)	?	
	7.7×10^{-1}		Abraham et al. (1990)	?	
1-pentanol	1.0	7900	Dohnal et al. (2006)	L	
$C_5H_{11}OH$	8.1×10^{-1}	7100	Shunthirasingham et al. (2013)	M	
(amylalcohol)	7.5×10^{-1}	6100	Lei et al. (2007)	M	156
[71-41-0]	9.4×10^{-1}	6800	Falabella et al. (2006)	M	89, 130
	9.5×10^{-1}	6900	Gupta et al. (2000)	M	
	8.4×10^{-1}		Li and Carr (1993)	M	
	9.0×10^{-1}		Rytting et al. (1978)	M	
	7.8×10^{-1}		Butler et al. (1935)	M	
	8.3×10^{-1}		Mackay et al. (2006c)	V	
	8.3×10^{-1}		Mackay et al. (1995)	V	
		7800	Abraham (1984)	V	
	7.8×10^{-1}		Amoore and Buttery (1978)	V	
	7.6×10^{-1}		Butler et al. (1935)	V	
	4.5×10^{-1}		Hilal et al. (2008)	Q	
		7600	Kühne et al. (2005)	Q	
	7.7×10^{-1}		Yaws et al. (1997)	Q	
	7.9×10^{-1}		Nirmalakhandan and Speece (1988a)	Q	
		7700	Kühne et al. (2005)	?	
	8.1×10^{-1}		Yaws and Yang (1992)	?	92
	9.0×10^{-1}		Abraham et al. (1990)	?	
	9.6×10^{-1}		Mackay and Yeun (1983)	?	
2-pentanol	6.7×10^{-1}		Butler et al. (1935)	M	
$C_5H_{12}O$	6.6×10^{-1}		Mackay et al. (2006c)	V	
(*sec*-pentanol)	6.6×10^{-1}		Mackay et al. (1995)	V	
[6032-29-7]	3.1×10^{-1}		Hilal et al. (2008)	Q	
		7600	Kühne et al. (2005)	Q	
	6.5×10^{-1}		Yaws et al. (1997)	Q	
	7.2×10^{-1}		Nirmalakhandan and Speece (1988a)	Q	
		7900	Kühne et al. (2005)	?	
	6.7×10^{-1}		Abraham et al. (1990)	?	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
3-pentanol	6.3×10^{-1}	7900	Cabani et al. (1975b)	T	
$C_5H_{12}O$	3.2×10^{-1}		Hilal et al. (2008)	Q	
[584-02-1]		7600	Kühne et al. (2005)	Q	
	7.7×10^{-1}		Nirmalakhandan et al. (1997)	Q	
	5.2×10^{-1}		Yaws et al. (1997)	Q	
		7500	Kühne et al. (2005)	?	
	6.2×10^{-1}		Abraham et al. (1990)	?	
2-methyl-1-butanol	7.0×10^{-1}		Butler et al. (1935)	M	
$C_5H_{12}O$	3.9×10^{-1}		Hilal et al. (2008)	Q	
(isopentanol)		7600	Kühne et al. (2005)	Q	
[137-32-6]	8.3×10^{-1}		Yaws et al. (1997)	Q	
	6.9×10^{-1}		Nirmalakhandan and Speece (1988a)	Q	
		6800	Kühne et al. (2005)	?	
	7.0×10^{-1}		Abraham et al. (1990)	?	
(*S*)-2-methyl-1-butanol	3.9×10^{-1}		Hilal et al. (2008)	Q	
$C_5H_{12}O$					
[1565-80-6]					
3-methyl-1-butanol	4.6×10^{-1}		Hilal et al. (2008)	Q	
$C_5H_{12}O$		7600	Kühne et al. (2005)	Q	
[123-51-3]	6.9×10^{-1}		Nirmalakhandan et al. (1997)	Q	
	7.4×10^{-1}		Yaws et al. (1997)	Q	
		8200	Kühne et al. (2005)	?	
	7.0×10^{-1}		Abraham et al. (1990)	?	
2-methyl-2-butanol	7.1×10^{-1}		Butler et al. (1935)	M	
$C_5H_{12}O$	7.2×10^{-1}		HSDB (2015)	Q	38
(*tert*-pentanol)	2.7×10^{-1}		Hilal et al. (2008)	Q	
[75-85-4]		7600	Kühne et al. (2005)	Q	
	6.1×10^{-1}		Yaws et al. (1997)	Q	
	6.0×10^{-1}		Nirmalakhandan and Speece (1988a)	Q	
		7200	Kühne et al. (2005)	?	
	7.2×10^{-1}		Abraham et al. (1990)	?	
3-methyl-2-butanol	3.1×10^{-1}		Hilal et al. (2008)	Q	
$C_5H_{12}O$		7600	Kühne et al. (2005)	Q	
[598-75-4]	5.4×10^{-1}		Yaws et al. (1997)	Q	
		7500	Kühne et al. (2005)	?	
2,2-dimethyl-1-propanol	1.9×10^{-1}		HSDB (2015)	V	
$C_5H_{12}O$	3.1×10^{-1}		Hilal et al. (2008)	Q	
[75-84-3]		7600	Kühne et al. (2005)	Q	
	4.9×10^{-1}		Saxena and Hildemann (1996)	E	158
		7900	Kühne et al. (2005)	?	
1-hexanol	5.7×10^{-1}	7300	Shunthirasingham et al. (2013)	M	
$C_6H_{14}O$	5.1×10^{-1}	6100	Lei et al. (2007)	M	156
[111-27-3]	3.9×10^{-1}	5800	Falabella et al. (2006)	M	89, 130
	3.9×10^{-1}	5800	Gupta et al. (2000)	M	
	9.8×10^{-1}		Altschuh et al. (1999)	M	
	6.4×10^{-1}		Li and Carr (1993)	M	
	6.9×10^{-1}		Rytting et al. (1978)	M	
	5.8×10^{-1}		Buttery et al. (1969)	M	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	5.3×10^{-1}		Mackay et al. (2006c)	V	
	5.3×10^{-1}		Mackay et al. (1995)	V	
	7.6×10^{-1}		Hwang et al. (1992)	V	
		8200	Abraham (1984)	V	
	6.4×10^{-1}		Hine and Mookerjee (1975)	V	
	6.4×10^{-1}		Butler et al. (1935)	V	
	3.7×10^{-1}		Hilal et al. (2008)	Q	
		7900	Kühne et al. (2005)	Q	
	4.7×10^{-1}		Yaws et al. (1997)	Q	
	6.2×10^{-1}		Nirmalakhandan and Speece (1988a)	Q	
		8400	Kühne et al. (2005)	?	
	5.3×10^{-1}		Yaws and Yang (1992)	?	92
	6.9×10^{-1}		Abraham et al. (1990)	?	
2-hexanol $C_6H_{14}O$ [626-93-7]	2.5×10^{-1}		Hilal et al. (2008)	Q	
	4.2×10^{-1}		Yaws et al. (1997)	Q	
3-hexanol $C_6H_{14}O$ [623-37-0]	2.3×10^{-1}		Meylan and Howard (1991)	V	
	2.0×10^{-1}		Hine and Mookerjee (1975)	V	
	3.9×10^{-1}	8400	Cabani et al. (1975b)	T	
	2.8×10^{-1}		Hilal et al. (2008)	Q	
	4.1×10^{-1}		Yaws et al. (1997)	Q	
	5.6×10^{-1}		Meylan and Howard (1991)	Q	
	6.0×10^{-1}		Nirmalakhandan and Speece (1988a)	Q	
	3.9×10^{-1}		Abraham et al. (1990)	?	
2-methyl-1-pentanol $C_6H_{14}O$ [105-30-6]	2.3×10^{-1}		HSDB (2015)	V	
	4.4×10^{-1}		Hilal et al. (2008)	Q	
	3.1×10^{-1}		Yaws et al. (1997)	Q	
3-methyl-1-pentanol $C_6H_{14}O$ [589-35-5]	3.8×10^{-1}		Hilal et al. (2008)	Q	
2-methyl-2-pentanol $C_6H_{14}O$ [590-36-3]	3.1×10^{-1}		Hine and Mookerjee (1975)	V	
	3.2×10^{-1}		Hilal et al. (2008)	Q	
	5.0×10^{-1}		Yaws et al. (1997)	Q	
	4.7×10^{-1}		Nirmalakhandan and Speece (1988a)	Q	
	3.1×10^{-1}		Abraham et al. (1990)	?	
3-methyl-2-pentanol $C_6H_{14}O$ [565-60-6]	2.8×10^{-1}		Yaws et al. (1997)	Q	
4-methyl-2-pentanol $C_6H_{14}O$ [108-11-2]	2.1×10^{-1}		Meylan and Howard (1991)	V	
	2.2×10^{-1}		Hine and Mookerjee (1975)	V	
	2.6×10^{-1}		Hilal et al. (2008)	Q	
		7900	Kühne et al. (2005)	Q	
	1.9×10^{-1}		Yaws et al. (1997)	Q	
	5.6×10^{-1}		Meylan and Howard (1991)	Q	
	4.8×10^{-1}		Nirmalakhandan and Speece (1988a)	Q	
		8700	Kühne et al. (2005)	?	
	2.2×10^{-1}		Abraham et al. (1990)	?	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2-methyl-3-pentanol	2.9×10^{-1}		Hine and Mookerjee (1975)	V	
$C_6H_{14}O$	3.3×10^{-1}		Hilal et al. (2008)	Q	
[565-67-3]	3.7×10^{-1}		Yaws et al. (1997)	Q	
	5.2×10^{-1}		Nirmalakhandan and Speece (1988a)	Q	
	2.9×10^{-1}		Abraham et al. (1990)	?	
3-methyl-3-pentanol	2.1×10^{-1}		Hilal et al. (2008)	Q	
$C_6H_{14}O$	7.0×10^{-1}		Yaws et al. (1997)	Q	
[77-74-7]					
2-ethyl-1-butanol	4.7×10^{-1}		Hilal et al. (2008)	Q	
$C_6H_{14}O$	4.8×10^{-1}		Yaws et al. (1997)	Q	
[97-95-0]					
2,2-dimethyl-1-butanol	2.8×10^{-1}		Yaws et al. (1997)	Q	
$C_6H_{14}O$					
[1185-33-7]					
2,3-dimethyl-1-butanol	8.2×10^{-1}		Yaws et al. (1997)	Q	
$C_6H_{14}O$	4.7×10^{-1}		Nirmalakhandan and Speece (1988a)	Q	
[19550-30-2]					
2,3-dimethyl-2-butanol	3.0×10^{-1}		Hine and Mookerjee (1975)	V	159
$C_6H_{14}O$	2.0×10^{-1}		Hilal et al. (2008)	Q	
[594-60-5]					
3,3-dimethyl-2-butanol	5.6×10^{-1}		HSDB (2015)	Q	38
$C_6H_{14}O$	4.9×10^{-1}		Yaws et al. (1997)	Q	
[464-07-3]					
1-heptanol	3.8×10^{-1}	7200	Shunthirasingham et al. (2013)	M	
$C_7H_{16}O$	3.6×10^{-1}	6300	Lei et al. (2007)	M	156
[111-70-6]	8.6×10^{-1}		Altschuh et al. (1999)	M	
	1.8×10^{-1}		Shiu and Mackay (1997)	M	
	6.2×10^{-1}		Mackay et al. (2006c)	V	
	6.2×10^{-1}		Shiu and Mackay (1997)	V	
	6.2×10^{-1}		Mackay et al. (1995)	V	
	4.9×10^{-1}	8700	Abraham (1984)	V	
	5.3×10^{-1}		Hine and Mookerjee (1975)	V	
	5.2×10^{-1}		Butler et al. (1935)	V	
	3.0×10^{-1}		Hilal et al. (2008)	Q	
		8300	Kühne et al. (2005)	Q	
	5.2×10^{-1}		Yaws et al. (1997)	Q	
	5.0×10^{-1}		Nirmalakhandan and Speece (1988a)	Q	
		9400	Kühne et al. (2005)	?	
	8.5×10^{-1}		Yaws and Yang (1992)	?	92
	5.0×10^{-1}		Abraham et al. (1990)	?	
2-heptanol	2.0×10^{-1}		Hilal et al. (2008)	Q	
$C_7H_{16}O$	1.2×10^{-1}		Yaws et al. (1997)	Q	
[543-49-7]					
3-heptanol	2.1×10^{-1}		Yaws et al. (1997)	Q	
$C_7H_{16}O$					
[589-82-2]					

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
4-heptanol $C_7H_{16}O$ [589-55-9]	3.5×10^{-1} 2.2×10^{-1}	9100	Cabani et al. (1975b) Yaws et al. (1997)	T Q	
2-methyl-1-hexanol $C_7H_{16}O$ [624-22-6]	6.9×10^{-1} 1.7×10^{-1}	11000	Hiatt (2013) Yaws et al. (1997)	M Q	
3-methyl-1-hexanol $C_7H_{16}O$ [13231-81-7]	1.3×10^{-1}		Yaws et al. (1997)	Q	
4-methyl-1-hexanol $C_7H_{16}O$ [818-49-5]	1.3×10^{-1}		Yaws et al. (1997)	Q	
5-methyl-1-hexanol $C_7H_{16}O$ [627-98-5]	2.8×10^{-1}		Yaws et al. (1997)	Q	
2-methyl-2-hexanol $C_7H_{16}O$ [625-23-0]	6.4×10^{-1}		Yaws et al. (1997)	Q	
3-methyl-2-hexanol $C_7H_{16}O$ [2313-65-7]	4.9×10^{-1}		Yaws et al. (1997)	Q	
4-methyl-2-hexanol $C_7H_{16}O$ [2313-61-3]	5.0×10^{-1}		Yaws et al. (1997)	Q	
5-methyl-2-hexanol $C_7H_{16}O$ [627-59-8]	4.2×10^{-1}		Yaws et al. (1997)	Q	
2-methyl-3-hexanol $C_7H_{16}O$ [617-29-8]	5.8×10^{-1}		Yaws et al. (1997)	Q	
3-methyl-3-hexanol $C_7H_{16}O$ [597-96-6]	7.7×10^{-1}		Yaws et al. (1997)	Q	
4-methyl-3-hexanol $C_7H_{16}O$ [615-29-2]	5.2×10^{-1}		Yaws et al. (1997)	Q	
5-methyl-3-hexanol $C_7H_{16}O$ [623-55-2]	5.4×10^{-1}		Yaws et al. (1997)	Q	
2-ethyl-1-pentanol $C_7H_{16}O$ [27522-11-8]	3.4×10^{-1}		Yaws et al. (1997)	Q	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
3-ethyl-1-pentanol $C_7H_{16}O$ [66225-51-2]	3.4×10^{-1}		Yaws et al. (1997)	Q	
2,2-dimethyl-1-pentanol $C_7H_{16}O$ [2370-12-9]	3.3×10^{-1}		Yaws et al. (1997)	Q	
2,3-dimethyl-1-pentanol $C_7H_{16}O$ [10143-23-4]	3.6×10^{-1}		Yaws et al. (1997)	Q	
2,4-dimethyl-1-pentanol $C_7H_{16}O$ [6305-71-1]	3.3×10^{-1}		Yaws et al. (1997)	Q	
3,3-dimethyl-1-pentanol $C_7H_{16}O$ [19264-94-9]	3.5×10^{-1}		Yaws et al. (1997)	Q	
3,4-dimethyl-1-pentanol $C_7H_{16}O$ [6570-87-2]	3.5×10^{-1}		Yaws et al. (1997)	Q	
4,4-dimethyl-1-pentanol $C_7H_{16}O$ [3121-79-7]	3.8×10^{-1}		Yaws et al. (1997)	Q	
3-ethyl-2-pentanol $C_7H_{16}O$ [609-27-8]	4.9×10^{-1}		Yaws et al. (1997)	Q	
2,3-dimethyl-2-pentanol $C_7H_{16}O$ [4911-70-0]	8.6×10^{-1}		Yaws et al. (1997)	Q	
2,4-dimethyl-2-pentanol $C_7H_{16}O$ [625-06-9]	5.7×10^{-1}		Yaws et al. (1997)	Q	
3,3-dimethyl-2-pentanol $C_7H_{16}O$ [19781-24-9]	5.5×10^{-1}		Yaws et al. (1997)	Q	
3,4-dimethyl-2-pentanol $C_7H_{16}O$ [64502-86-9]	4.7×10^{-1}		Yaws et al. (1997)	Q	
4,4-dimethyl-2-pentanol $C_7H_{16}O$ [6144-93-0]	6.8×10^{-1}		Yaws et al. (1997)	Q	
3-ethyl-3-pentanol $C_7H_{16}O$ [597-49-9]	1.1		Yaws et al. (1997)	Q	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,2-dimethyl-3-pentanol $C_7H_{16}O$ [3970-62-5]	4.0×10^{-1}		Yaws et al. (1997)	Q	
2,3-dimethyl-3-pentanol $C_7H_{16}O$ [595-41-5]	9.2×10^{-1}		Yaws et al. (1997)	Q	
2,4-dimethyl-3-pentanol $C_7H_{16}O$ [600-36-2]	3.8×10^{-1}		Yaws et al. (1997)	Q	
2-ethyl-2-methyl-1-butanol $C_7H_{16}O$ [18371-13-6]	4.3×10^{-1}		Yaws et al. (1997)	Q	
2-ethyl-3-methyl-1-butanol $C_7H_{16}O$ [32444-34-1]	3.8×10^{-1}		Yaws et al. (1997)	Q	
2,2,3-trimethyl-1-butanol $C_7H_{16}O$ [55505-23-2]	4.3×10^{-1}		Yaws et al. (1997)	Q	
2,3,3-trimethyl-1-butanol $C_7H_{16}O$ [36794-64-6]	4.0×10^{-1}		Yaws et al. (1997)	Q	
2,3,3-trimethyl-2-butanol $C_7H_{16}O$ [594-83-2]	2.7×10^{-1}		Yaws et al. (1997)	Q	
1-octanol	2.1×10^{-1}	6900	Shunthirasingham et al. (2013)	M	
$C_8H_{18}O$	1.9×10^{-1}	6000	Lei et al. (2007)	M	156
[111-87-5]	6.5×10^{-1}		Altschuh et al. (1999)	M	
	4.0×10^{-1}		Buttery et al. (1969)	M	
	3.8×10^{-1}		Mackay et al. (2006c)	V	
	2.4×10^{-1}		Mackay et al. (1995)	V	
		8900	Abraham (1984)	V	
	4.1×10^{-1}		Hine and Mookerjee (1975)	V	
	4.1×10^{-1}		Butler et al. (1935)	V	
	3.3×10^{-1}		Savary et al. (2014)	Q	
	2.5×10^{-1}		Hilal et al. (2008)	Q	
		8600	Kühne et al. (2005)	Q	
	3.9×10^{-1}		Yaws et al. (1997)	Q	
	3.9×10^{-1}		Nirmalakhandan and Speece (1988a)	Q	
		7700	Kühne et al. (2005)	?	
	6.2×10^{-1}		Yaws and Yang (1992)	?	92
	4.0×10^{-1}		Abraham et al. (1990)	?	
2-octanol	2.7×10^{-1}		HSDB (2015)	V	
$C_8H_{18}O$	2.7×10^{-1}		Meylan and Howard (1991)	V	
[123-96-6]	1.7×10^{-1}		Hilal et al. (2008)	Q	
	3.0×10^{-1}		Yaws et al. (1997)	Q	
	3.2×10^{-1}		Meylan and Howard (1991)	Q	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
3-octanol $C_8H_{18}O$ [589-98-0]	3.1×10^{-1}		Yaws et al. (1997)	Q	
4-octanol $C_8H_{18}O$ [589-62-8]	2.9×10^{-1}		Yaws et al. (1997)	Q	
2-methyl-1-heptanol $C_8H_{18}O$ [60435-70-3]	3.4×10^{-1}		Yaws et al. (1997)	Q	160
3-methyl-1-heptanol $C_8H_{18}O$ [1070-32-2]	2.1×10^{-1}		Yaws et al. (1997)	Q	
4-methyl-1-heptanol $C_8H_{18}O$ [817-91-4]	2.3×10^{-1}		Yaws et al. (1997)	Q	
5-methyl-1-heptanol $C_8H_{18}O$ [7212-53-5]	2.1×10^{-1}		Yaws et al. (1997)	Q	
6-methyl-1-heptanol $C_8H_{18}O$ [1653-40-3]	1.1×10^{-1} 2.0×10^{-1}		HSDB (2015) Yaws et al. (1997)	V Q	
2-methyl-2-heptanol $C_8H_{18}O$ [625-25-2]	5.1×10^{-1}		Yaws et al. (1997)	Q	
3-methyl-2-heptanol $C_8H_{18}O$ [31367-46-1]	3.9×10^{-1}		Yaws et al. (1997)	Q	
4-methyl-2-heptanol $C_8H_{18}O$ [56298-90-9]	3.4×10^{-1}		Yaws et al. (1997)	Q	
5-methyl-2-heptanol $C_8H_{18}O$ [54630-50-1]	3.3×10^{-1}		Yaws et al. (1997)	Q	
6-methyl-2-heptanol $C_8H_{18}O$ [4730-22-7]	3.3×10^{-1}		Yaws et al. (1997)	Q	
2-methyl-3-heptanol $C_8H_{18}O$ [18720-62-2]	3.8×10^{-1}		Yaws et al. (1997)	Q	
3-methyl-3-heptanol $C_8H_{18}O$ [5582-82-1]	2.9×10^{-1}		Yaws et al. (1997)	Q	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
4-methyl-3-heptanol $C_8H_{18}O$ [14979-39-6]	5.3×10^{-1}		Yaws et al. (1997)	Q	
5-methyl-3-heptanol $C_8H_{18}O$ [18720-65-5]	5.6×10^{-1}		Yaws et al. (1997)	Q	
2-methyl-4-heptanol $C_8H_{18}O$ [21570-35-4]	3.9×10^{-1}		Yaws et al. (1997)	Q	
3-methyl-4-heptanol $C_8H_{18}O$ [1838-73-9]	4.1×10^{-1}		Yaws et al. (1997)	Q	
4-methyl-4-heptanol $C_8H_{18}O$ [598-01-6]	4.5×10^{-1}		Yaws et al. (1997)	Q	
2-ethyl-1-hexanol $C_8H_{18}O$ [104-76-7]	3.8×10^{-1} 3.1×10^{-1} 4.3×10^{-1}		HSDB (2015) Hilal et al. (2008) Yaws et al. (1997)	V Q Q	
2,2-dimethyl-1-hexanol $C_8H_{18}O$ [2370-13-0]	4.9×10^{-1}		Yaws et al. (1997)	Q	
2,4-dimethyl-1-hexanol $C_8H_{18}O$ [3965-59-1]	4.6×10^{-1}		Yaws et al. (1997)	Q	
2,5-dimethyl-1-hexanol $C_8H_{18}O$ [6886-16-4]	4.1×10^{-1}		Yaws et al. (1997)	Q	
3,5-dimethyl-1-hexanol $C_8H_{18}O$ [13501-73-0]	3.6×10^{-1}		Yaws et al. (1997)	Q	
3-ethyl-2-hexanol $C_8H_{18}O$ [24448-19-9]	5.6×10^{-1}		Yaws et al. (1997)	Q	
2,3-dimethyl-2-hexanol $C_8H_{18}O$ [19550-03-9]	7.0×10^{-1}		Yaws et al. (1997)	Q	
2,4-dimethyl-2-hexanol $C_8H_{18}O$ [42328-76-7]	8.9×10^{-1}		Yaws et al. (1997)	Q	
2,5-dimethyl-2-hexanol $C_8H_{18}O$ [3730-60-7]	8.5×10^{-1}		Yaws et al. (1997)	Q	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
3,4-dimethyl-2-hexanol $C_8H_{18}O$ [19550-05-1]	5.2×10^{-1}		Yaws et al. (1997)	Q	
3,5-dimethyl-2-hexanol $C_8H_{18}O$ [66576-27-0]	7.0×10^{-1}		Yaws et al. (1997)	Q	
5,5-dimethyl-2-hexanol $C_8H_{18}O$ [31841-77-7]	6.0×10^{-1}		Yaws et al. (1997)	Q	
3-ethyl-3-hexanol $C_8H_{18}O$ [597-76-2]	7.2×10^{-1}		Yaws et al. (1997)	Q	
4-ethyl-3-hexanol $C_8H_{18}O$ [19780-44-0]	6.3×10^{-1}		Yaws et al. (1997)	Q	
2,2-dimethyl-3-hexanol $C_8H_{18}O$ [4209-90-9]	7.8×10^{-1}		Yaws et al. (1997)	Q	
2,3-dimethyl-3-hexanol $C_8H_{18}O$ [4166-46-5]	7.4×10^{-1}		Yaws et al. (1997)	Q	
2,4-dimethyl-3-hexanol $C_8H_{18}O$ [13432-25-2]	7.0×10^{-1}		Yaws et al. (1997)	Q	
2,5-dimethyl-3-hexanol $C_8H_{18}O$ [19550-07-3]	7.2×10^{-1}		Yaws et al. (1997)	Q	
3,4-dimethyl-3-hexanol $C_8H_{18}O$ [19550-08-4]	8.6×10^{-1}		Yaws et al. (1997)	Q	
3,5-dimethyl-3-hexanol $C_8H_{18}O$ [4209-91-0]	8.6×10^{-1}		Yaws et al. (1997)	Q	
4,4-dimethyl-3-hexanol $C_8H_{18}O$ [19550-09-5]	7.2×10^{-1}		Yaws et al. (1997)	Q	
5,5-dimethyl-3-hexanol $C_8H_{18}O$ [66576-31-6]	8.4×10^{-1}		Yaws et al. (1997)	Q	
2-propyl-1-pentanol $C_8H_{18}O$ [58175-57-8]	4.1×10^{-1}		Yaws et al. (1997)	Q	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2-ethyl-2-methyl-1-pentanol $C_8H_{18}O$ [5970-63-8]	4.3×10^{-1}		Yaws et al. (1997)	Q	
2-ethyl-4-methyl-1-pentanol $C_8H_{18}O$ [106-67-2]	4.4×10^{-1}		Yaws et al. (1997)	Q	
2,2,3-trimethyl-1-pentanol $C_8H_{18}O$ [57409-53-7]	4.7×10^{-1}		Yaws et al. (1997)	Q	
2,2,4-trimethyl-1-pentanol $C_8H_{18}O$ [123-44-4]	5.6×10^{-1}		Yaws et al. (1997)	Q	
2,3,4-trimethyl-1-pentanol $C_8H_{18}O$ [6570-88-3]	3.6×10^{-1}		Yaws et al. (1997)	Q	
2,4,4-trimethyl-1-pentanol $C_8H_{18}O$ [16325-63-6]	5.2×10^{-1}		Yaws et al. (1997)	Q	
3-ethyl-2-methyl-2-pentanol $C_8H_{18}O$ [19780-63-3]	7.4×10^{-1}		Yaws et al. (1997)	Q	
3-ethyl-4-methyl-2-pentanol $C_8H_{18}O$ [66576-23-6]	6.3×10^{-1}		Yaws et al. (1997)	Q	
2,3,3-trimethyl-2-pentanol $C_8H_{18}O$ [23171-85-9]	7.0×10^{-1}		Yaws et al. (1997)	Q	
2,3,4-trimethyl-2-pentanol $C_8H_{18}O$ [66576-26-9]	7.4×10^{-1}		Yaws et al. (1997)	Q	
2,4,4-trimethyl-2-pentanol $C_8H_{18}O$ [690-37-9]	9.9×10^{-1}		Yaws et al. (1997)	Q	
3,3,4-trimethyl-2-pentanol $C_8H_{18}O$ [19411-41-7]	6.1×10^{-1}		Yaws et al. (1997)	Q	
3,4,4-trimethyl-2-pentanol $C_8H_{18}O$ [10575-56-1]	7.4×10^{-1}		Yaws et al. (1997)	Q	
3-ethyl-2-methyl-3-pentanol $C_8H_{18}O$ [597-05-7]	7.0×10^{-1}		Yaws et al. (1997)	Q	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,2,3-trimethyl-3-pentanol $C_8H_{18}O$ [7294-05-5]	1.1		Yaws et al. (1997)	Q	
2,2,4-trimethyl-3-pentanol $C_8H_{18}O$ [5162-48-1]	8.9×10^{-1}		Yaws et al. (1997)	Q	
2,3,4-trimethyl-3-pentanol $C_8H_{18}O$ [3054-92-0]	7.6×10^{-1}		Yaws et al. (1997)	Q	
3-methyl-2-(1-methylethyl)-1-butanol $C_8H_{18}O$ [18593-92-5]	4.9×10^{-1}		Yaws et al. (1997)	Q	
1-nonanol $C_9H_{20}O$ [143-08-8]	1.1×10^{-1}	6300	Shunthirasingham et al. (2013)	M	
	1.4×10^{-1}	6200	Lei et al. (2007)	M	156
	3.2×10^{-1}		HSDB (2015)	V	
	2.8×10^{-1}		Abraham (1984)	V	
	2.2×10^{-1}		Hilal et al. (2008)	Q	
	3.1×10^{-1}		Nirmalakhandan et al. (1997)	Q	
	3.2×10^{-1}		Yaws et al. (1997)	Q	
	5.9×10^{-1}		Yaws and Yang (1992)	?	92
	2.9×10^{-1}		Abraham et al. (1990)	?	
2-nonanol $C_9H_{20}O$ [628-99-9]	5.4×10^{-1}		Yaws et al. (1997)	Q	
3-nonanol $C_9H_{20}O$ [624-51-1]	3.0×10^{-1}		Yaws et al. (1997)	Q	
4-nonanol $C_9H_{20}O$ [5932-79-6]	3.1×10^{-1}		Yaws et al. (1997)	Q	
5-nonanol $C_9H_{20}O$ [623-93-8]	2.9×10^{-1}		Yaws et al. (1997)	Q	
6-methyl-1-octanol $C_9H_{20}O$ [38514-05-5]	2.1×10^{-1}		Yaws et al. (1997)	Q	
7-methyl-1-octanol $C_9H_{20}O$ [2430-22-0]	2.1×10^{-1}		Yaws et al. (1997)	Q	
2-methyl-2-octanol $C_9H_{20}O$ [628-44-4]	4.8×10^{-1}		Yaws et al. (1997)	Q	
2-methyl-3-octanol $C_9H_{20}O$ [26533-34-6]	4.1×10^{-1}		Yaws et al. (1997)	Q	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
3-methyl-3-octanol $C_9H_{20}O$ [5340-36-3]	3.6×10^{-1}		Yaws et al. (1997)	Q	
2-methyl-4-octanol $C_9H_{20}O$ [40575-41-5]	4.1×10^{-1}		Yaws et al. (1997)	Q	
3-methyl-4-octanol $C_9H_{20}O$ [26533-35-7]	4.6×10^{-1}		Yaws et al. (1997)	Q	
4-methyl-4-octanol $C_9H_{20}O$ [23418-37-3]	4.5×10^{-1}		Yaws et al. (1997)	Q	
3-ethyl-1-heptanol $C_9H_{20}O$ [3525-25-5]	2.0×10^{-1}		Yaws et al. (1997)	Q	
2,2-dimethyl-1-heptanol $C_9H_{20}O$ [14250-79-4]	3.2×10^{-1}		Yaws et al. (1997)	Q	
2,6-dimethyl-2-heptanol $C_9H_{20}O$ [13254-34-7]	5.8×10^{-1}		Yaws et al. (1997)	Q	
4,6-dimethyl-2-heptanol $C_9H_{20}O$ [51079-52-8]	3.1×10^{-1}		Yaws et al. (1997)	Q	
5,6-dimethyl-2-heptanol $C_9H_{20}O$ [58795-24-7]	3.2×10^{-1}		Yaws et al. (1997)	Q	
3-ethyl-3-heptanol $C_9H_{20}O$ [19780-41-7]	4.3×10^{-1}		Yaws et al. (1997)	Q	
2,3-dimethyl-3-heptanol $C_9H_{20}O$ [19549-71-4]	5.4×10^{-1}		Yaws et al. (1997)	Q	
2,6-dimethyl-3-heptanol $C_9H_{20}O$ [19549-73-6]	5.2×10^{-1}		Yaws et al. (1997)	Q	
4-ethyl-4-heptanol $C_9H_{20}O$ [597-90-0]	4.7×10^{-1}		Yaws et al. (1997)	Q	
2,2-dimethyl-4-heptanol $C_9H_{20}O$ [66793-99-5]	5.4×10^{-1}		Yaws et al. (1997)	Q	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,4-dimethyl-4-heptanol $C_9H_{20}O$ [19549-77-0]	5.7×10^{-1}		Yaws et al. (1997)	Q	
2,5-dimethyl-4-heptanol $C_9H_{20}O$	1.6×10^{-1}		Yaws et al. (1997)	Q	
2,6-dimethyl-4-heptanol $C_9H_{20}O$ [108-82-7]	1.7×10^{-1} 1.7×10^{-1}		Hilal et al. (2008) Yaws et al. (1997)	Q Q	
3,3-dimethyl-4-heptanol $C_9H_{20}O$ [19549-78-1]	2.2×10^{-1}		Yaws et al. (1997)	Q	
2-ethyl-4-methyl-1-hexanol $C_9H_{20}O$ [66794-06-7]	1.2×10^{-1}		Yaws et al. (1997)	Q	
3-ethyl-2-methyl-1-hexanol $C_9H_{20}O$ [66794-01-2]	1.3×10^{-1}		Yaws et al. (1997)	Q	
3,4,4-trimethyl-1-hexanol $C_9H_{20}O$ [66793-73-5]	1.4×10^{-1}		Yaws et al. (1997)	Q	
3,5,5-trimethyl-1-hexanol $C_9H_{20}O$ [3452-97-9]	1.3×10^{-1}		Yaws et al. (1997)	Q	
4,5,5-trimethyl-1-hexanol $C_9H_{20}O$ [66793-75-7]	9.4×10^{-2}		Yaws et al. (1997)	Q	
3-ethyl-2-methyl-2-hexanol $C_9H_{20}O$ [66794-02-3]	2.1×10^{-1}		Yaws et al. (1997)	Q	
3-ethyl-2-methyl-3-hexanol $C_9H_{20}O$ [66794-03-4]	1.7×10^{-1}		Yaws et al. (1997)	Q	
3-ethyl-5-methyl-3-hexanol $C_9H_{20}O$ [597-77-3]	2.5×10^{-1}		Yaws et al. (1997)	Q	
2,2,3-trimethyl-3-hexanol $C_9H_{20}O$ [5340-41-0]	2.4×10^{-1}		Yaws et al. (1997)	Q	
2,2,4-trimethyl-3-hexanol $C_9H_{20}O$ [66793-89-3]	2.7×10^{-1}		Yaws et al. (1997)	Q	
2,2,5-trimethyl-3-hexanol $C_9H_{20}O$ [3970-60-3]	3.4×10^{-1}		Yaws et al. (1997)	Q	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,4,4-trimethyl-3-hexanol $C_9H_{20}O$ [66793-92-8]	2.5×10^{-1}		Yaws et al. (1997)	Q	
3,4,4-trimethyl-3-hexanol $C_9H_{20}O$ [66793-74-6]	2.9×10^{-1}		Yaws et al. (1997)	Q	
4-methyl-2-propyl-1-pentanol $C_9H_{20}O$ [54004-41-0]	1.3×10^{-1}		Yaws et al. (1997)	Q	
4-methyl-2-(1-methylethyl)-1-pentanol $C_9H_{20}O$ [55505-24-3]	1.6×10^{-1}		Yaws et al. (1997)	Q	
2-ethyl-2,4-dimethyl-1-pentanol $C_9H_{20}O$ [66793-98-4]	1.5×10^{-1}		Yaws et al. (1997)	Q	
3,3,4,4-tetramethyl-2-pentanol $C_9H_{20}O$ [66793-88-2]	2.0×10^{-1}		Yaws et al. (1997)	Q	
3-ethyl-2,2-dimethyl-3-pentanol $C_9H_{20}O$ [66793-96-2]	2.3×10^{-1}		Yaws et al. (1997)	Q	
3-ethyl-2,4-dimethyl-3-pentanol $C_9H_{20}O$ [3970-59-0]	2.1×10^{-1}		Yaws et al. (1997)	Q	
2,2,3,4-tetramethyl-3-pentanol $C_9H_{20}O$ [29772-39-2]	2.3×10^{-1}		Yaws et al. (1997)	Q	
2,2,4,4-tetramethylpentan-3-ol $C_9H_{20}O$ [14609-79-1]	2.8×10^{-1}		Yaws et al. (1997)	Q	
1-decanol $C_{10}H_{22}O$ [112-30-1]	7.6×10^{-2}	6600	Shunthirasingham et al. (2013)	M	
	6.5×10^{-2}	5300	Lei et al. (2007)	M	156
	3.1×10^{-1}		Altschuh et al. (1999)	M	
	1.9×10^{-1}		Abraham (1984)	V	
	2.0×10^{-1}		Hilal et al. (2008)	Q	
	2.4×10^{-1}		Nirmalakhandan et al. (1997)	Q	
	2.1×10^{-1}		Yaws et al. (1997)	Q	
	3.7×10^{-1}		Yaws and Yang (1992)	?	92
	1.9×10^{-1}		Abraham et al. (1990)	?	
2-decanol $C_{10}H_{22}O$ [1120-06-5]	5.4×10^{-1}		Yaws et al. (1997)	Q	
4-decanol $C_{10}H_{22}O$ [2051-31-2]	5.3×10^{-1}		Yaws et al. (1997)	Q	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
5-decanol $C_{10}H_{22}O$ [5205-34-5]	7.3×10^{-1}		Yaws et al. (1997)	Q	
2-methyl-1-nonanol $C_{10}H_{22}O$ [40589-14-8]	3.4×10^{-1}		Yaws et al. (1997)	Q	
8-methyl-1-nonanol $C_{10}H_{22}O$ (isodecanol) [25339-17-7]	1.8×10^{-1}		HSDB (2015)	Q	38
2-methyl-3-nonanol $C_{10}H_{22}O$ [26533-33-5]	5.7×10^{-1}		Yaws et al. (1997)	Q	
2,2-dimethyl-1-octanol $C_{10}H_{22}O$ [2370-14-1]	5.7×10^{-1}		Yaws et al. (1997)	Q	
3,7-dimethyl-1-octanol $C_{10}H_{22}O$ [106-21-8]	5.0×10^{-1}		Yaws et al. (1997)	Q	
3-ethyl-3-octanol $C_{10}H_{22}O$ [2051-32-3]	7.7×10^{-1}		Yaws et al. (1997)	Q	
2,3-dimethyl-3-octanol $C_{10}H_{22}O$ [19781-10-3]	1.0		Yaws et al. (1997)	Q	
2,7-dimethyl-3-octanol $C_{10}H_{22}O$ [66719-55-9]	9.0×10^{-1}		Yaws et al. (1997)	Q	
3,6-dimethyl-3-octanol $C_{10}H_{22}O$ [151-19-9]	9.6×10^{-1}		Yaws et al. (1997)	Q	
3,7-dimethyl-3-octanol $C_{10}H_{22}O$ [78-69-3]	8.5×10^{-1}		Yaws et al. (1997)	Q	
2,2-dimethyl-4-octanol $C_{10}H_{22}O$ [66719-52-6]	1.0		Yaws et al. (1997)	Q	
4,7-dimethyl-4-octanol $C_{10}H_{22}O$ [19781-13-6]	9.6×10^{-1}		Yaws et al. (1997)	Q	
2-propyl-1-heptanol $C_{10}H_{22}O$ [10042-59-8]	4.0×10^{-1}		Yaws et al. (1997)	Q	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
3-(1-methylethyl)-1-heptanol $C_{10}H_{22}O$ [38514-15-7]	4.4×10^{-1}		Yaws et al. (1997)	Q	
2,5,6-trimethyl-2-heptanol $C_{10}H_{22}O$ [66256-48-2]	9.3×10^{-1}		Yaws et al. (1997)	Q	
3-ethyl-2-methyl-3-heptanol $C_{10}H_{22}O$ [66719-37-7]	9.3×10^{-1}		Yaws et al. (1997)	Q	
2,2,3-trimethyl-3-heptanol $C_{10}H_{22}O$ [29772-40-5]	1.1		Yaws et al. (1997)	Q	
3,5,5-trimethyl-3-heptanol $C_{10}H_{22}O$ [66256-50-6]	8.6×10^{-1}		Yaws et al. (1997)	Q	
4-propyl-4-heptanol $C_{10}H_{22}O$ [2198-72-3]	9.0×10^{-1}		Yaws et al. (1997)	Q	
4-(1-methylethyl)-4-heptanol $C_{10}H_{22}O$ [51200-82-9]	1.0		Yaws et al. (1997)	Q	
2,2,4-trimethyl-4-heptanol $C_{10}H_{22}O$ [57233-31-5]	1.3		Yaws et al. (1997)	Q	
2,4,6-trimethyl-4-heptanol $C_{10}H_{22}O$ [60836-07-9]	1.3		Yaws et al. (1997)	Q	
2-butyl-1-hexanol $C_{10}H_{22}O$ [2768-15-2]	4.4×10^{-1}		Yaws et al. (1997)	Q	
4-methyl-2-propyl-1-hexanol $C_{10}H_{22}O$ [66256-62-0]	5.7×10^{-1}		Yaws et al. (1997)	Q	
4-methyl-2-(1-methylethyl)-1-hexanol $C_{10}H_{22}O$ [66719-41-3]	7.3×10^{-1}		Yaws et al. (1997)	Q	
5-methyl-2-(1-methylethyl)-1-hexanol $C_{10}H_{22}O$ [2051-33-4]	4.8×10^{-1}		Yaws et al. (1997)	Q	
2,3,4,4-tetramethyl-2-hexanol $C_{10}H_{22}O$ [66256-66-4]	1.0		Yaws et al. (1997)	Q	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2-methyl-3-(1-methylethyl)-3-hexanol $C_{10}H_{22}O$ [51200-81-8]	9.6×10^{-1}		Yaws et al. (1997)	Q	
4-ethyl-2,2-dimethyl-3-hexanol $C_{10}H_{22}O$ [66719-47-9]	1.1		Yaws et al. (1997)	Q	
2,2,3,4-tetramethyl-3-hexanol $C_{10}H_{22}O$ [66256-63-1]	9.6×10^{-1}		Yaws et al. (1997)	Q	
2,2,4,4-tetramethyl-3-hexanol $C_{10}H_{22}O$ [66256-65-3]	1.0		Yaws et al. (1997)	Q	
2,2,5,5-tetramethyl-3-hexanol $C_{10}H_{22}O$ [55073-86-4]	1.7		Yaws et al. (1997)	Q	
2,3,4,4-tetramethyl-3-hexanol $C_{10}H_{22}O$ [66256-67-5]	7.3×10^{-1}		Yaws et al. (1997)	Q	
3,4,4,5-tetramethyl-3-hexanol $C_{10}H_{22}O$ [66256-39-1]	7.0×10^{-1}		Yaws et al. (1997)	Q	
3,4,5,5-tetramethyl-3-hexanol $C_{10}H_{22}O$ [66256-40-4]	8.8×10^{-1}		Yaws et al. (1997)	Q	
4-methyl-2-(2-methylpropyl)-1-pentanol $C_{10}H_{22}O$ [22417-45-4]	6.6×10^{-1}		Yaws et al. (1997)	Q	
2,4-dimethyl-3-propyl-3-pentanol $C_{10}H_{22}O$ [500001-19-4]	1.2		Yaws et al. (1997)	Q	
2,4-dimethyl-3-(1-methylethyl)-3-pentanol $C_{10}H_{22}O$ [51200-83-0]	8.9×10^{-1}		Yaws et al. (1997)	Q	
3-ethyl-2,2,4-trimethyl-3-pentanol $C_{10}H_{22}O$ [66256-41-5]	9.9×10^{-1}		Yaws et al. (1997)	Q	
2,2,3,4,4-pentamethyl-3-pentanol $C_{10}H_{22}O$ [5857-69-2]	8.9×10^{-1}		Yaws et al. (1997)	Q	
1-undecanol $C_{11}H_{24}O$ [112-42-5]	1.4×10^{-1} 1.2×10^{-1} 2.2×10^{-1}		HSDB (2015) Hilal et al. (2008) Yaws et al. (1997)	Q Q Q	38

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1-dodecanol	4.4×10^{-1}		Altschuh et al. (1999)	M	
$C_{12}H_{26}O$	1.4×10^{-1}	9800	Abraham (1984)	V	
[112-53-8]	1.5×10^{-1}		Hilal et al. (2008)	Q	
	1.9×10^{-1}		Yaws et al. (1997)	Q	
	1.1×10^{-1}		Yaws and Yang (1992)	?	92
2,6,8-trimethyl-4-nonanol	1.0×10^{-1}		Zhang et al. (2010)	Q	107, 108
$C_{12}H_{26}O$	1.1×10^{-1}		Zhang et al. (2010)	Q	107, 109
[123-17-1]	6.0×10^{-2}		Zhang et al. (2010)	Q	107, 110
	2.6×10^{-2}		Zhang et al. (2010)	Q	107, 111
1-tridecanol	7.6×10^{-2}		HSDB (2015)	Q	38
$C_{13}H_{28}O$	1.2×10^{-1}		Yaws et al. (1997)	Q	
[112-70-9]					
1-tetradecanol	6.2×10^{-2}		HSDB (2015)	V	
$C_{14}H_{30}O$	2.2×10^{-1}		Abraham (1984)	R	
[112-72-1]	6.2×10^{-2}		Hilal et al. (2008)	Q	
	9.5×10^{-2}		Yaws et al. (1997)	Q	
	3.9×10^{3}		Yaws and Yang (1992)	?	92, 161
1-pentadecanol	2.2×10^{-1}		Abraham (1984)	V	
$C_{15}H_{32}O$	2.5×10^{-1}		Yaws et al. (1997)	Q	
[629-76-5]	3.0×10^{3}		Yaws and Yang (1992)	?	92, 162
1-hexadecanol	2.1×10^{-1}		HSDB (2015)	V	
$C_{16}H_{34}O$	3.5×10^{-1}		Abraham (1984)	R	
(cetyl alcohol)	3.9×10^{-2}		Hilal et al. (2008)	Q	
[124-29-8]	1.0×10^{-1}		Yaws et al. (1997)	Q	
	5.9×10^{-1}		Yaws and Yang (1992)	?	92
1-heptadecanol	4.5×10^{-2}		Yaws et al. (1997)	Q	
$C_{17}H_{36}O$	1.2×10^{1}		Yaws and Yang (1992)	?	92
[1454-85-9]					
1-octadecanol	1.2×10^{-2}		HSDB (2015)	V	
$C_{18}H_{38}O$	3.8×10^{-1}		Abraham (1984)	R	
[112-92-5]	2.5×10^{-2}		Hilal et al. (2008)	Q	
	3.1×10^{-3}		Yaws et al. (1997)	Q	
	9.1×10^{-1}		Yaws and Yang (1992)	?	92, 163
1-nonadecanol	9.9×10^{-2}		Yaws et al. (1997)	Q	
$C_{19}H_{40}O$					
[1454-84-8]					
1-eicosanol	4.7×10^{-1}		HSDB (2015)	Q	38
$C_{20}H_{42}O$	1.8×10^{-2}		Yaws et al. (1997)	Q	
[629-96-9]					
1-docosanol	6.2×10^{-3}		HSDB (2015)	Q	38
$C_{22}H_{46}O$					
(behenic alcohol)					
[661-19-8]					
1-tetracosanol	3.4×10^{-3}		HSDB (2015)	Q	38
$C_{24}H_{50}O$					
[506-51-4]					

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
cyclopentanol	4.3	8000	Cabani et al. (1975b)	T	
C_5H_9OH	3.8		HSDB (2015)	Q	38
[96-41-3]	2.0		Hilal et al. (2008)	Q	
		7200	Kühne et al. (2005)	Q	
	4.4		Nirmalakhandan et al. (1997)	Q	
		7300	Kühne et al. (2005)	?	
	4.3		Abraham et al. (1990)	?	
cyclohexanol	2.2		Altschuh et al. (1999)	M	
$C_6H_{11}OH$	4.5		Mackay et al. (2006c)	V	
[108-93-0]	4.5		Mackay et al. (1995)	V	
	3.5		Meylan and Howard (1991)	V	
	1.7		Hine and Mookerjee (1975)	V	
	4.1	8500	Cabani et al. (1975b)	T	
	3.6		Howard (1993)	X	164
	3.3		Hilal et al. (2008)	Q	
		7500	Kühne et al. (2005)	Q	
	2.7		Nirmalakhandan et al. (1997)	Q	
	2.0		Meylan and Howard (1991)	Q	
	3.4		Nirmalakhandan and Speece (1988a)	Q	
		7500	Kühne et al. (2005)	?	
	4.1		Abraham et al. (1990)	?	
cycloheptanol	4.2	9000	Cabani et al. (1975b)	T	
$C_7H_{13}OH$	1.0		Hilal et al. (2008)	Q	
[502-41-0]	4.2		Abraham et al. (1990)	?	
2-methylcyclohexanol	1.3		Altschuh et al. (1999)	M	
$C_7H_{14}O$	1.3		Hilal et al. (2008)	Q	
[583-59-5]					
3-methylcyclohexanol	2.7		Altschuh et al. (1999)	M	
$C_7H_{14}O$					
[591-23-1]					
cyclododecanol	3.4		Altschuh et al. (1999)	M	
$C_{12}H_{24}O$	3.7×10^{-1}		Zhang et al. (2010)	Q	107, 108
[1724-39-6]	3.4		Zhang et al. (2010)	Q	107, 109
	8.0		Zhang et al. (2010)	Q	107, 110
	5.3×10^{-2}		Zhang et al. (2010)	Q	107, 111
	1.6		Hilal et al. (2008)	Q	
perhydrobisphenol a	9.7		Zhang et al. (2010)	Q	107, 108
$C_{15}H_{28}O_2$	6.1×10^{4}		Zhang et al. (2010)	Q	107, 109
[80-04-6]	3.4×10^{4}		Zhang et al. (2010)	Q	107, 110
	1.8×10^{2}		Zhang et al. (2010)	Q	107, 111
3-(5,5,6-trimethyl-2-norbornyl)cyclohexanol	6.1×10^{-1}		Zhang et al. (2010)	Q	107, 108
$C_{16}H_{28}O$	1.6×10^{1}		Zhang et al. (2010)	Q	107, 109
[3407-42-9]	1.1×10^{1}		Zhang et al. (2010)	Q	107, 110
	2.7×10^{-1}		Zhang et al. (2010)	Q	107, 111

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
4-(5,5,6-trimethylbicyclo[2.2.1]hept-2-yl)cyclohexan-1-ol	6.1×10^{-1}		Zhang et al. (2010)	Q	107, 108
$C_{16}H_{28}O$	1.8×10^{1}		Zhang et al. (2010)	Q	107, 109
[66068-84-6]	4.4×10^{1}		Zhang et al. (2010)	Q	107, 110
	2.7×10^{-1}		Zhang et al. (2010)	Q	107, 111
4-((1R,2R,4R)-born-2-yl)cyclohexanol	6.1×10^{-1}		Zhang et al. (2010)	Q	107, 108
$C_{16}H_{28}O$	9.9		Zhang et al. (2010)	Q	107, 109
[66072-32-0]	4.3×10^{1}		Zhang et al. (2010)	Q	107, 110
	1.6×10^{-1}		Zhang et al. (2010)	Q	107, 111
2-propen-1-ol	2.0		Lide and Frederikse (1995)	V	
C_3H_5OH	4.3	7200	Goldstein (1982)	X	116
(allyl alcohol)	2.0		Pierotti et al. (1959)	X	165
[107-18-6]	2.8		Hilal et al. (2008)	Q	
	3.5		Nirmalakhandan et al. (1997)	Q	
	3.4		Nirmalakhandan and Speece (1988a)	Q	
	1.8		Yaws and Yang (1992)	?	92
	2.0		Abraham et al. (1990)	?	
2-propyn-1-ol	3.8	7400	Hiatt (2013)	M	
C_3H_4O	9.0		HSDB (2015)	V	
(propargyl alcohol)	5.4		Hilal et al. (2008)	Q	
[107-19-7]					
2-buten-1-ol	2.7		Hilal et al. (2008)	Q	
$CH_3CHCHCH_2OH$	3.0		Saxena and Hildemann (1996)	E	158
[6117-91-5]					
2-methyl-3-buten-2-ol	6.4×10^{-1}		Iraci et al. (1999)	M	23
C_5H_9O	4.7×10^{-1}		Altschuh et al. (1999)	M	
[115-18-4]	6.0×10^{-1}		Hilal et al. (2008)	Q	
2-methyl-3-butyn-2-ol	2.5		Altschuh et al. (1999)	M	
C_5H_8O	1.0		Hilal et al. (2008)	Q	
[115-19-5]					
3-methyl-1-pentyn-3-ol	9.9×10^{-1}		Hilal et al. (2008)	Q	
$C_6H_{10}O$					
(meparfynol)					
[77-75-8]					
1-octen-3-ol	1.3×10^{-1}		Roberts and Pollien (1997)	M	
$C_8H_{16}O$					
[3391-86-4]					
bicyclo[2.2.1]heptan-2-ol	2.2	5000	van Roon et al. (2005)	V	
$C_7H_{12}O$					
(norborneol)					
[1632-68-4]					

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
3,7-dimethyl-1,6-octadien-3-ol	2.0×10^{-1}	4400	Leng et al. (2013)	M	
$C_{10}H_{18}O$	4.6×10^{-1}		Altschuh et al. (1999)	M	
(linalool)	4.8×10^{-1}		Copolovici and Niinemets (2005)	V	
[78-70-6]	4.8×10^{-1}		Niinemets and Reichstein (2002)	V	
	2.1×10^{-1}	14000	Li et al. (1998)	V	
	2.5×10^{-1}		Savary et al. (2014)	Q	
	6.9×10^{-1}		Hilal et al. (2008)	Q	
	1.5×10^{-2}		Hertel and Sommer (2006)	Q	166
(*E*)-3,7-dimethyl-2,6-octadien-1-ol $C_{10}H_{18}O$ (geraniol) [106-24-1]	1.7×10^{-1}		HSDB (2015)	Q	38
tricyclo[3.3.1.1(3,7)]decan-1-ol $C_{10}H_{16}O$ (1-adamantanol) [768-95-6]	6.0	5300	van Roon et al. (2005)	V	
plinol $C_{10}H_{18}O$ [11039-70-6]	1.2		Hilal et al. (2008)	Q	
3,7,11-trimethyl-2,6,10-dodecatrien-1-ol $C_{15}H_{26}O$ (farnesol) [4602-84-0]	3.9×10^{-2}		HSDB (2015)	Q	38
(*Z*)-9-octadecen-1-ol $C_{18}H_{36}O$ (oleyl alcohol) [143-28-2]	2.1×10^{-2}		HSDB (2015)	Q	38
dihydroabietyl alcohol	1.9×10^{-1}		Zhang et al. (2010)	Q	107, 108
$C_{20}H_{34}O$	2.4×10^{1}		Zhang et al. (2010)	Q	107, 109
[26266-77-3]	2.6×10^{1}		Zhang et al. (2010)	Q	107, 110
	2.0×10^{-1}		Zhang et al. (2010)	Q	107, 111
ethylestrenol $C_{20}H_{32}O$ [965-90-2]	4.3×10^{-1}		HSDB (2015)	Q	38
hydroxybenzene	2.8×10^{1}	2700	Guo and Brimblecombe (2007)	M	
C_6H_5OH	6.4	7700	Feigenbrugel et al. (2004b)	M	
(phenol)	3.0×10^{1}	5900	Harrison et al. (2002)	M	
[108-95-2]	1.9×10^{1}		Sheikheldin et al. (2001)	M	9
	>4.2		Altschuh et al. (1999)	M	
	8.1×10^{1}	7400	Tabai et al. (1997)	M	89
	4.2		Heal et al. (1995)	M	147
	1.6×10^{1}	6000	Dohnal and Fenclová (1995)	M	
	1.5×10^{1}		Tremp et al. (1993)	M	9
	1.7×10^{1}	6100	Abd-El-Bary et al. (1986)	M	
	7.6		Warner et al. (1980)	M	
	2.0×10^{1}		Mackay et al. (2006c)	V	
	2.5×10^{1}		Lide and Frederikse (1995)	V	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	1.9×10^{1}		Mackay et al. (1995)	V	
	1.9×10^{1}		Shiu et al. (1994)	V	
	3.4		Hwang et al. (1992)	V	
	1.1×10^{1}		Riederer (1990)	V	
	9.0×10^{1}		Leuenberger et al. (1985)	V	167
	4.8		Hine and Weimar (1965)	R	
	2.8×10^{1}	6800	Parsons et al. (1971)	T	168
	1.9	3600	Janini and Quaddora (1986)	X	116
	1.9×10^{1}	7300	Goldstein (1982)	X	116
	2.5×10^{1}		Howard (1989)	X	169
	3.0×10^{1}		Gaffney and Senum (1984)	X	153
	3.7×10^{1}		McCarty (1980)	X	145
	2.5×10^{1}		Schüürmann (2000)	C	7
	7.6		Shiu et al. (1994)	C	
	7.6		Smith et al. (1993)	C	
	2.1×10^{1}		Ryan et al. (1988)	C	
	7.6		Shen (1982)	C	
	4.4		Hilal et al. (2008)	Q	
		6200	Kühne et al. (2005)	Q	
	9.9		Nirmalakhandan and Speece (1988a)	Q	
		5400	Kühne et al. (2005)	?	
	1.6×10^{1}		Abraham et al. (1990)	?	
(hydroxymethyl)-benzene	$>3.7\times10^{1}$		Altschuh et al. (1999)	M	
$C_6H_5CH_2OH$	6.2×10^{-2}		Mackay et al. (2006c)	V	
(benzyl alcohol)	6.2×10^{-2}		Mackay et al. (1995)	V	
[100-51-6]	2.9×10^{1}		Abraham et al. (1994a)	R	
	2.5×10^{1}		Howard (1993)	X	164
	2.2×10^{1}		Hilal et al. (2008)	Q	
	6.9×10^{1}		Nirmalakhandan et al. (1997)	Q	
	8.9×10^{1}		Saxena and Hildemann (1996)	E	158
	2.9×10^{1}		HSDB (2015)	?	170
	1.8×10^{1}		Abraham et al. (1990)	?	
1-hydroxy-2-methylbenzene	4.2	8500	Feigenbrugel et al. (2004b)	M	
$HOC_6H_4CH_3$	1.1×10^{1}	6700	Harrison et al. (2002)	M	
(2-cresol; *o*-cresol)	6.3		Altschuh et al. (1999)	M	
[95-48-7]	5.6	5800	Dohnal and Fenclová (1995)	M	
	7.1		Tremp et al. (1993)	M	9
	8.2	7300	Parsons et al. (1972)	M	168
			Mackay et al. (2006c)	V	171
	6.2		Lide and Frederikse (1995)	V	
	6.4		Mackay et al. (1995)	V	
	3.5×10^{1}		Leuenberger et al. (1985)	V	167
	2.6	4600	Janini and Quaddora (1986)	X	116
	6.2		Howard (1989)	X	169
	8.2		Gaffney and Senum (1984)	X	153
	8.3		Schüürmann (2000)	C	7
	5.3		Hilal et al. (2008)	Q	
		6500	Kühne et al. (2005)	Q	
	7.2		Nirmalakhandan and Speece (1988a)	Q	
		8100	Kühne et al. (2005)	?	
	1.2×10^{1}		Yaws and Yang (1992)	?	92, 9

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	8.0		Abraham et al. (1990)	?	
1-hydroxy-3-methylbenzene	7.9	9000	Feigenbrugel et al. (2004b)	M	
$HOC_6H_4CH_3$	1.2×10^1		Altschuh et al. (1999)	M	
(3-cresol; m-cresol)	1.2×10^1	6000	Dohnal and Fenclová (1995)	M	
[108-39-4]	1.3×10^1		Mackay et al. (2006c)	V	
	1.2×10^1		Schüürmann (2000)	V	
	1.1×10^1		Lide and Frederikse (1995)	V	
	1.1×10^1		Mackay et al. (1995)	V	
	1.1×10^1		Meylan and Howard (1991)	V	
	4.9×10^1		Leuenberger et al. (1985)	V	167
	6.1	7700	Janini and Quaddora (1986)	X	116
	1.1×10^1		Howard (1989)	X	169
	3.9		Hilal et al. (2008)	Q	
		6500	Kühne et al. (2005)	Q	
	1.6×10^1		Meylan and Howard (1991)	Q	
		6500	Kühne et al. (2005)	?	
	1.4×10^1		Yaws and Yang (1992)	?	92, 9
	4.3		Abraham et al. (1990)	?	
1-hydroxy-4-methylbenzene	1.0×10^1	9300	Feigenbrugel et al. (2004b)	M	
$HOC_6H_4CH_3$	>2.9		Altschuh et al. (1999)	M	
(4-cresol; p-cresol)	1.3×10^1	6100	Dohnal and Fenclová (1995)	M	
[106-44-5]	1.3×10^1		Tremp et al. (1993)	M	9
	1.3×10^1	7200	Parsons et al. (1972)	M	168
	1.8×10^1		Mackay et al. (2006c)	V	
	1.0×10^1		Lide and Frederikse (1995)	V	
	1.5×10^1		Mackay et al. (1995)	V	
	4.5×10^1		Leuenberger et al. (1985)	V	167
	5.2	4600	Janini and Quaddora (1986)	X	116
	1.0×10^1		Howard (1989)	X	169
	9.9		Gaffney and Senum (1984)	X	153
	1.3×10^1		Schüürmann (2000)	C	7
	4.2		Hilal et al. (2008)	Q	
		6500	Kühne et al. (2005)	Q	
	7.0		Nirmalakhandan and Speece (1988a)	Q	
		6000	Kühne et al. (2005)	?	
	2.5×10^1		Yaws and Yang (1992)	?	92, 9
	1.3×10^1		Abraham et al. (1990)	?	
1-hydroxy-2,3-dimethylbenzene	9.3		Sheikheldin et al. (2001)	M	9
$C_8H_{10}O$	1.0×10^1	6800	Dohnal and Fenclová (1995)	M	
(2,3-xylenol; 2,3-dimethylphenol)	3.2		HSDB (2015)	V	
[526-75-0]	1.8×10^1		Mackay et al. (2006c)	V	
	1.9×10^1		Mackay et al. (1995)	V	
	4.9×10^1		Leuenberger et al. (1985)	V	167
	1.3×10^1		Abraham et al. (1994a)	R	
	5.8		Hilal et al. (2008)	Q	
	4.6×10^1		Nirmalakhandan et al. (1997)	Q	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1-hydroxy-2,4-dimethylbenzene	6.6		Sheikheldin et al. (2001)	M	9
$C_8H_{10}O$	4.9	6100	Dohnal and Fenclová (1995)	M	
(2,4-xylenol; 2,4-dimethylphenol)	1.9×10^{-3}	-3300	Ashworth et al. (1988)	M	103
[105-67-9]	5.5		Mackay et al. (2006c)	V	
	1.6×10^{1}		Lide and Frederikse (1995)	V	
	5.5		Mackay et al. (1995)	V	
	5.5×10^{-1}		Hwang et al. (1992)	V	
	4.9		Meylan and Howard (1991)	V	
	1.6×10^{1}		Leuenberger et al. (1985)	V	167
	1.0×10^{1}		Abraham et al. (1994a)	R	
	4.1	6600	Goldstein (1982)	X	116
	1.6×10^{1}		Howard (1989)	X	169
	5.8×10^{-1}		Smith et al. (1993)	C	
	5.4×10^{-1}		Ryan et al. (1988)	C	
	1.7×10^{1}		Petrasek et al. (1983)	C	
	5.1		Hilal et al. (2008)	Q	
	4.6×10^{1}		Nirmalakhandan et al. (1997)	Q	
	1.4×10^{1}		Meylan and Howard (1991)	Q	
1-hydroxy-2,5-dimethylbenzene	7.5	6800	Dohnal and Fenclová (1995)	M	
$C_8H_{10}O$	1.4		HSDB (2015)	V	
(2,5-xylenol; 2,5-dimethylphenol)	7.5		Mackay et al. (2006c)	V	
[95-87-4]	7.4		Mackay et al. (1995)	V	
	3.8×10^{1}		Leuenberger et al. (1985)	V	167
	8.8		Abraham et al. (1994a)	R	
	5.2		Hilal et al. (2008)	Q	
	4.6×10^{1}		Nirmalakhandan et al. (1997)	Q	
1-hydroxy-2,6-dimethylbenzene	2.3	6200	Dohnal and Fenclová (1995)	M	
$C_8H_{10}O$	1.3		Hawthorne et al. (1985)	M	
(2,6-xylenol; 2,6-dimethylphenol)	2.5		Mackay et al. (2006c)	V	
[576-26-1]	2.6		Mackay et al. (1995)	V	
	2.6		Shiu et al. (1994)	V	
	5.2		Leuenberger et al. (1985)	V	167
	2.9		Abraham et al. (1994a)	R	
	9.2		Hilal et al. (2008)	Q	
	4.6×10^{1}		Nirmalakhandan et al. (1997)	Q	
1-hydroxy-3,4-dimethylbenzene	2.4×10^{1}	7100	Dohnal and Fenclová (1995)	M	
$C_8H_{10}O$	8.2		HSDB (2015)	V	
(3,4-xylenol; 3,4-dimethylphenol)	4.6×10^{1}		Mackay et al. (2006c)	V	
[95-65-8]	4.7×10^{1}		Mackay et al. (1995)	V	
	4.7×10^{1}		Shiu et al. (1994)	V	
	1.1×10^{2}		Leuenberger et al. (1985)	V	167
	2.4×10^{1}		Abraham et al. (1994a)	R	
	4.4		Hilal et al. (2008)	Q	
	4.6×10^{1}		Nirmalakhandan et al. (1997)	Q	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1-hydroxy-3,5-dimethylbenzene	1.6×10^1	6900	Dohnal and Fenclová (1995)	M	
$C_8H_{10}O$	7.6		HSDB (2015)	V	
(3,5-xylenol; 3,5-dimethylphenol)	2.8×10^1		Mackay et al. (2006c)	V	
[108-68-9]	3.1×10^1		Mackay et al. (1995)	V	
	2.5×10^1		Shiu et al. (1994)	V	
	6.2×10^1		Leuenberger et al. (1985)	V	167
	1.6×10^1		Abraham et al. (1994a)	R	
	3.2		Hilal et al. (2008)	Q	
	4.6×10^1		Nirmalakhandan et al. (1997)	Q	
4-methylbenzenemethanol	9.0		HSDB (2015)	V	
$C_8H_{10}O$					
[589-18-4]					
α-methylbenzyl alcohol	3.4×10^1		HSDB (2015)	Q	38
$C_8H_{10}O$					
[98-85-1]					
2,3,5-trimethylphenol	1.2×10^1		Mackay et al. (2006c)	V	
$C_9H_{12}O$	1.2×10^1		Mackay et al. (1995)	V	
[697-82-5]					
2,4,6-trimethylphenol	3.2		HSDB (2015)	V	
$C_9H_{12}O$	1.3		Mackay et al. (2006c)	V	
[527-60-6]	1.4		Mackay et al. (1995)	V	
	9.2		Hilal et al. (2008)	Q	
3,4,5-trimethylphenol	3.4×10^1		Mackay et al. (2006c)	V	
$C_9H_{12}O$	3.8×10^1		Mackay et al. (1995)	V	
[527-54-8]					
1-hydroxy-2-ethylbenzene	2.1		HSDB (2015)	V	
$C_8H_{10}O$	5.6		Mackay et al. (2006c)	V	
(2-ethylphenol)					
[90-00-6]					
1-hydroxy-3-ethylbenzene	4.9		Karl et al. (2003)	M	
$C_8H_{10}O$	1.6×10^1		Abraham et al. (1994a)	R	
(3-ethylphenol)	9.0		HSDB (2015)	Q	38
[620-17-7]	3.4		Hilal et al. (2008)	Q	
	5.4×10^1		Nirmalakhandan et al. (1997)	Q	
1-hydroxy-4-ethylbenzene	8.2		HSDB (2015)	V	
$C_8H_{10}O$	2.1×10^1		Mackay et al. (2006c)	V	
(4-ethylphenol)	1.3×10^1		Abraham et al. (1994a)	R	
[123-07-9]	3.8		Hilal et al. (2008)	Q	
	5.4×10^1		Nirmalakhandan et al. (1997)	Q	
1-hydroxy-4-propylbenzene	1.7		Mackay et al. (2006c)	V	
$C_9H_{12}O$	8.6		Abraham et al. (1994a)	R	
(4-propylphenol)	3.1		Hilal et al. (2008)	Q	
[645-56-7]	4.3×10^1		Nirmalakhandan et al. (1997)	Q	
2-(1-methylethyl)-phenol	2.6		Mackay et al. (2006c)	V	
$C_9H_{12}O$	2.8		Hilal et al. (2008)	Q	
[88-69-7]					

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2-phenylisopropanol $C_9H_{12}O$ [617-94-7]	2.6×10^1		HSDB (2015)	Q	38
3-methyl-5-ethylphenol $C_9H_{12}O$ [698-71-5]	2.9		Hilal et al. (2008)	Q	
2,3,6-trimethylphenol $C_9H_{12}O$ [2416-94-6]	2.5 1.1×10^1		HSDB (2015) Hilal et al. (2008)	V Q	
2-(1,1-dimethylethyl)phenol $C_{10}H_{14}O$ [88-18-6]	7.0		HSDB (2015)	Q	38
2-(1-methylpropyl)phenol $C_{10}H_{14}O$ [89-72-5]	4.7		HSDB (2015)	Q	38
4-(1-methylpropyl)-phenol $C_{10}H_{14}O$ (4-*sec*-butylphenol) [99-71-8]	3.6 4.3		Mackay et al. (2006c) Mackay et al. (1995)	V V	
4-*tert*-butylphenol $C_{10}H_{14}O$ [98-54-4]	8.9 1.6×10^1 2.1×10^1 2.1 2.4×10^1 2.7 1.5×10^{-1} 8.8	7700	Parsons et al. (1972) Mackay et al. (2006c) Mackay et al. (1995) Hilal et al. (2008) Nirmalakhandan et al. (1997) Nirmalakhandan and Speece (1988a) Betterton (1992) Abraham et al. (1990)	M V V Q Q Q ? ?	168 172
2-methyl-5-(1-methylethyl)-phenol $C_{10}H_{14}O$ (carvacrol) [499-75-2]	2.4	9300	van Roon et al. (2005)	V	
5-methyl-2-(1-methylethyl)-phenol $C_{10}H_{14}O$ (thymol) [89-83-8]	3.0 2.8	9300	van Roon et al. (2005) Hilal et al. (2008)	V Q	
2-(1,1-dimethylethyl)-4-methylphenol $C_{11}H_{16}O$ [2409-55-4]	6.6		HSDB (2015)	Q	38
4-(1,1-dimethylpropyl)phenol $C_{11}H_{16}O$ [80-46-6]	4.9		HSDB (2015)	V	
1-hydroxy-4-octylbenzene $C_{14}H_{22}O$ (4-octylphenol) [1806-26-4]	1.3 2.0		Mackay et al. (2006c) Mackay et al. (1995)	V V	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1-hydroxy-4-nonylbenzene	2.9×10^{-1}		HSDB (2015)	V	
$C_{15}H_{24}O$	3.6×10^{-1}		Mackay et al. (2006c)	V	
(4-nonylphenol)	6.4×10^{-1}		Mackay et al. (1995)	V	
[104-40-5]					
4-(1,1,3,3-tetramethylbutyl)-phenol	2.3	9000	Xie et al. (2004)	M	
$C_{14}H_{22}O$	1.4		HSDB (2015)	Q	38
(*p-tert*-octylphenol)	2.2		Zhang et al. (2010)	Q	107, 108
[140-66-9]	2.3		Zhang et al. (2010)	Q	107, 109
	1.0×10^{1}		Zhang et al. (2010)	Q	107, 110
	1.8		Zhang et al. (2010)	Q	107, 111
2,6-bis(1,1-dimethylethyl)-4-methylphenol	2.9×10^{-3}		Yoshida et al. (1983)	V	
$C_{15}H_{24}O$					
(butylated hydroxytoluene; BHT)					
[128-37-0]					
4-(3',5'-dimethyl-3'-heptyl)-phenol(+)	2.9	8700	Xie et al. (2004)	M	
$C_{15}H_{24}O$					
4-(3',5'-dimethyl-3'-heptyl)-phenol(-)	3.3	8600	Xie et al. (2004)	M	
$C_{15}H_{24}O$					
2-phenylethanol	$>3.7\times10^{1}$		Altschuh et al. (1999)	M	
$C_8H_{10}O$	6.6×10^{1}		HSDB (2015)	V	
[60-12-8]	3.9×10^{1}		Abraham et al. (1994a)	R	
	1.9×10^{1}		Hilal et al. (2008)	Q	
	2.4×10^{-1}		Emel'yanenko et al. (2007)	Q	166
	2.4×10^{-1}		Hertel and Sommer (2005)	Q	166
	5.3×10^{1}		Nirmalakhandan et al. (1997)	Q	
3-phenyl-1-propanol	$>1.8\times10^{2}$		Altschuh et al. (1999)	M	
$C_9H_{12}O$	4.8×10^{1}		Abraham et al. (1994a)	R	
[122-97-4]	1.4×10^{1}		Hilal et al. (2008)	Q	
	4.2×10^{1}		Nirmalakhandan et al. (1997)	Q	
4-phenyl-1-butanol	>6.7		Altschuh et al. (1999)	M	
$C_{10}H_{14}O$	1.2×10^{1}		Hilal et al. (2008)	Q	
[3360-41-6]					
1-naphthalenol	1.6×10^{2}		HSDB (2015)	V	
$C_{10}H_8O$	2.9×10^{1}		Mackay et al. (2006c)	V	
(1-naphthol)	1.7×10^{2}		Abraham et al. (1994a)	R	
[90-15-3]	6.9×10^{1}		Hilal et al. (2008)	Q	
	1.5×10^{3}		Nirmalakhandan et al. (1997)	Q	
2-naphthalenol	1.1×10^{2}		Mackay et al. (2006c)	V	
$C_{10}H_8O$	3.6×10^{2}		Abraham et al. (1994a)	R	
(2-naphthol)	2.1×10^{2}		HSDB (2015)	Q	38
[135-19-3]	7.0×10^{1}		Hilal et al. (2008)	Q	
		7400	Kühne et al. (2005)	Q	
	1.7×10^{3}		Nirmalakhandan et al. (1997)	Q	
		7200	Kühne et al. (2005)	?	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
o-hydroxybiphenyl	9.4		HSDB (2015)	V	
$C_{12}H_{10}O$	2.9×10^{-1}		Mackay et al. (2006c)	V	
[90-43-7]	3.1×10^{1}		Hilal et al. (2008)	Q	
p-hydroxybiphenyl	1.6×10^{-1}		Mackay et al. (2006c)	V	
$C_{12}H_{10}O$	1.9×10^{2}		HSDB (2015)	Q	38
[92-69-3]					
2,4,6-tris(1,1-dimethylethyl)phenol	1.0		Zhang et al. (2010)	Q	107, 108
$C_{18}H_{30}O$	5.6×10^{-2}		Zhang et al. (2010)	Q	107, 109
[732-26-3]	3.3×10^{-2}		Zhang et al. (2010)	Q	107, 110
	5.3×10^{-2}		Zhang et al. (2010)	Q	107, 111
dehydroabietol	8.4		Zhang et al. (2010)	Q	107, 108
$C_{20}H_{30}O$	1.8×10^{2}		Zhang et al. (2010)	Q	107, 109
[3772-55-2]	2.4×10^{1}		Zhang et al. (2010)	Q	107, 110
	7.2×10^{-1}		Zhang et al. (2010)	Q	107, 111
2,2'-methylenebis(6-(1,1-dimethylethyl)-4-methylphenol)	1.2×10^{6}		HSDB (2015)	Q	38
$C_{23}H_{32}O_2$					
[119-47-1]					
2,4-dinonylphenol	1.5×10^{-1}		HSDB (2015)	Q	38
$C_{24}H_{42}O$	1.6×10^{-1}		Zhang et al. (2010)	Q	107, 108
[137-99-5]	3.8×10^{-1}		Zhang et al. (2010)	Q	107, 109
	7.0×10^{-1}		Zhang et al. (2010)	Q	107, 110
	2.5×10^{-1}		Zhang et al. (2010)	Q	107, 111
Polyols ($R(OH)_n$)					
1,2-ethanediol	4.0×10^{3}		Bone et al. (1983)	M	9
$HO(CH_2)_2OH$	1.6×10^{2}		Butler and Ramchandani (1935)	M	173
(ethylene glycol)	4.7		HSDB (2015)	V	
[107-21-1]	6.5×10^{3}	8800	Compernolle and Müller (2014b)	V	
	5.0×10^{3}		Hwang et al. (1992)	V	
	7.2×10^{2}		Hilal et al. (2008)	Q	
1,2-propanediol	7.6×10^{2}		HSDB (2015)	V	
$C_3H_8O_2$	2.7×10^{3}	9500	Compernolle and Müller (2014b)	V	
[57-55-6]			Saxena and Hildemann (1996)	E	158, 174
1,3-propanediol	9.1×10^{3}		Bone et al. (1983)	M	9
$C_3H_8O_2$	1.6×10^{4}	9500	Compernolle and Müller (2014b)	V	
[504-63-2]	4.0×10^{2}		Hilal et al. (2008)	Q	
1,2,3-propanetriol	5.8×10^{2}		Butler and Ramchandani (1935)	M	173
$C_3H_8O_3$	4.7×10^{6}	11000	Compernolle and Müller (2014b)	V	
(glycerol)	5.0×10^{6}		Hwang et al. (1992)	V	
[56-81-5]			Saxena and Hildemann (1996)	E	158, 175
1,2-butanediol	$>3.4\times10^{2}$		Altschuh et al. (1999)	M	
$C_4H_{10}O_2$	2.1×10^{3}	9900	Compernolle and Müller (2014b)	V	
[584-03-2]					

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1,3-butanediol $C_4H_{10}O_2$ [107-88-0]	7.0×10^3 4.9×10^4	10000	Compernolle and Müller (2014b) Saxena and Hildemann (1996)	V E	 158
1,4-butanediol $C_4H_{10}O_2$ [110-63-4]	$>9.0\times10^2$ 7.6×10^3 3.5×10^4 8.0×10^3	 11000 	Altschuh et al. (1999) HSDB (2015) Compernolle and Müller (2014b) Hilal et al. (2008) Saxena and Hildemann (1996)	M V V Q E	 158, 176
2,3-butanediol $C_4H_{10}O_2$ [513-85-9]	3.4×10^2 1.1×10^3	 9900	HSDB (2015) Compernolle and Müller (2014b) Saxena and Hildemann (1996)	V V E	 158, 177
2-methylpropane-1,3-diol $C_4H_{10}O_2$ [2163-42-0]	4.3×10^1		HSDB (2015)	Q	38
1,2,3-butanetriol $C_4H_{10}O_3$ [4435-50-1]	3.0×10^9		Saxena and Hildemann (1996)	E	158
1,2,4-butanetriol $C_4H_{10}O_3$ [3068-00-6]	3.0×10^9		Saxena and Hildemann (1996)	E	158
1,2,3,4-butanetetrol $C_4H_{10}O_4$ (1,2,3,4-tetrahydroxybutane)	2.0×10^{14}		Saxena and Hildemann (1996)	E	158
2(*R*),3(*S*)-1,2,3,4-butanetetrol $C_4H_{10}O_4$ (erythritol) [149-32-6]	1.1×10^{10} 3.2×10^4	16000	Compernolle and Müller (2014b) HSDB (2015)	V Q	 38
1,2-pentanediol $C_5H_{12}O_2$ [5343-92-0]	1.4×10^3		Compernolle and Müller (2014b)	V	
1,4-pentanediol $C_5H_{12}O_2$ [626-95-9]	2.3×10^4		Compernolle and Müller (2014b)	V	
1,5-pentanediol $C_5H_{12}O_2$ [111-29-5]	7.0×10^4 7.7×10^3 3.9×10^4	12000	Compernolle and Müller (2014b) Hilal et al. (2008) Saxena and Hildemann (1996)	V Q E	 158
2,3-pentanediol $C_5H_{12}O_2$ [42027-23-6]	3.0×10^4		Saxena and Hildemann (1996)	E	158
2,4-pentanediol $C_5H_{12}O_2$ [625-69-4]	3.8×10^3 3.0×10^4		Compernolle and Müller (2014b) Saxena and Hildemann (1996)	V E	 158

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2-(hydroxymethyl)-2-methyl-1,3-propanediol $C_5H_{12}O_3$ [77-85-0]	9.0×10^{2}		HSDB (2015)	Q	38
2,2-bis(hydroxymethyl)1,3-propanediol $C_5H_{12}O_4$ (pentaerythritol) [115-77-5]	7.3×10^{10} 2.4×10^{4}	16000	Compernolle and Müller (2014b) HSDB (2015)	V Q	 38
1,2,3,4,5-pentanepentol $C_5H_{12}O_5$	8.9×10^{18}		Saxena and Hildemann (1996)	E	158
(2R,3R,4S)-pentane-1,2,3,4,5-pentol $C_5H_{12}O_5$ (xylitol) [87-99-0]	3.9×10^{11} 6.6×10^{5}	17000	Compernolle and Müller (2014b) HSDB (2015)	V Q	 38
(2R,3S,4S)-pentane-1,2,3,4,5-pentol $C_5H_{12}O_5$ (adonitol; ribitol) [488-81-3]	4.6×10^{11}	18000	Compernolle and Müller (2014b)	V	
(2R,4R)-pentane-1,2,3,4,5-pentol $C_5H_{12}O_5$ (arabitol; arabinitol) [2152-56-9]	6.7×10^{11}	18000	Compernolle and Müller (2014b)	V	
1,2-hexanediol $C_6H_{14}O_2$ [6920-22-5]	1.7×10^{3}		Compernolle and Müller (2014b)	V	
1,6-hexanediol $C_6H_{14}O_2$ [629-11-8]	4.5×10^{4} 3.0×10^{4}		HSDB (2015) Saxena and Hildemann (1996)	Q E	38 158
2,5-hexanediol $C_6H_{14}O_2$ [2935-44-6]	1.4×10^{4} 2.0×10^{4}		Compernolle and Müller (2014b) Saxena and Hildemann (1996)	V E	 158
2-methyl-1,3-pentanediol $C_6H_{14}O_2$ [149-31-5]	3.0×10^{4}		Saxena and Hildemann (1996)	E	158
2-methyl-2,4-pentanediol $C_6H_{14}O_2$ [107-41-5]	2.5×10^{1} 2.0×10^{4}		HSDB (2015) Saxena and Hildemann (1996)	Q E	38 158
1,2,6-hexanetriol $C_6H_{14}O_3$ [106-69-4]	2.0×10^{9}		Saxena and Hildemann (1996)	E	158
1,2,3,4,5,6-hexahydroxy hexane $C_6H_{14}O_6$	3.9×10^{23}		Saxena and Hildemann (1996)	E	158

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
(2S,3R,4R,5R)-hexane-1,2,3,4,5,6-hexol $C_6H_{14}O_6$ (sorbitol) [50-70-4]	6.6×10^{14} 1.4×10^{7}	22000	Compernolle and Müller (2014b) HSDB (2015)	V Q	 38
(2R,3R,4R,5R)-hexane-1,2,3,4,5,6-hexol $C_6H_{14}O_6$ (mannitol) [69-65-8]	1.8×10^{15} 1.4×10^{7}	22000	Compernolle and Müller (2014b) HSDB (2015)	V Q	 38
(2R,3S,4R,5S)-hexane-1,2,3,4,5,6-hexol $C_6H_{14}O_6$ (dulcitol; galaktit) [608-66-2]	9.0×10^{14}	22000	Compernolle and Müller (2014b)	V	
1,2,4,5-cyclohexanetetrol $C_6H_{12}O_4$ (1,2,4,5-tetrahydroxycyclohexane) [35652-37-0]	3.9×10^{14}		Saxena and Hildemann (1996)	E	158
1,2,3,4,5,6-hexahydroxycyclohexane $C_6H_{12}O_6$ [87-89-8]	9.9×10^{23}		Saxena and Hildemann (1996)	E	158
1,7-heptanediol $C_7H_{16}O_2$ [629-30-1]	 2.0×10^{4}		Compernolle and Müller (2014b) Saxena and Hildemann (1996)	V E	178 158
2,4-heptanediol $C_7H_{16}O_2$ [20748-86-1]	2.0×10^{4}		Saxena and Hildemann (1996)	E	158
2,2-diethyl-1,3-propanediol $C_7H_{16}O_2$ [115-76-4]	2.0×10^{4}		Saxena and Hildemann (1996)	E	158
1,2,3,4,5-pentahydroxyheptane $C_7H_{16}O_5$	4.9×10^{18}		Saxena and Hildemann (1996)	E	158
1,2,3,4,6-pentahydroxyheptane $C_7H_{16}O_5$	3.9×10^{18}		Saxena and Hildemann (1996)	E	158
1,2,3,5,7-pentahydroxyheptane $C_7H_{16}O_5$	4.9×10^{18}		Saxena and Hildemann (1996)	E	158
1,2,3,4,5,6-hexahydroxyheptane $C_7H_{16}O_6$ (1-deoxy-heptitol) [688007-16-1]	3.0×10^{23}		Saxena and Hildemann (1996)	E	158
4-methylcyclohexanemethanol $C_8H_{16}O$ [34885-03-5]	1.5		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1,4-cyclohexanedimethanol $C_8H_{16}O_2$ [105-08-8]	1.5×10^5		HSDB (2015)	V	
2-ethyl-1,3-hexanediol $C_8H_{18}O_2$ [94-96-2]	1.1×10^2 2.0×10^4		Hilal et al. (2008) Saxena and Hildemann (1996)	Q E	 158
2,2,4-trimethyl-1,3-pentanediol $C_8H_{18}O_2$ [144-19-4]	1.4×10^1		HSDB (2015)	Q	38
2,5-dimethyl-2,5-hexanediol $C_8H_{18}O_2$ [110-03-2]	1.4×10^1 1.9×10^3 7.9×10^2 4.7×10^1		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
1,9-nonanediol $C_9H_{20}O_2$ [3937-56-2]			Compernolle and Müller (2014b)	V	179
1,10-decanediol $C_{10}H_{22}O_2$ [112-47-0]			Compernolle and Müller (2014b)	V	180
2-butene-1,4-diol $C_4H_8O_2$ [110-64-5]	$>3.4\times10^2$		Altschuh et al. (1999)	M	
2-butyne-1,4-diol $C_4H_6O_2$ (1,4-dihydroxy-2-butyne) [110-65-6]	$>2.0\times10^3$ 5.8×10^5		Altschuh et al. (1999) HSDB (2015)	M V	
1,2-dihydroxybenzene $C_6H_4(OH)_2$ (pyrocatechol) [120-80-9]	8.2×10^3 1.8×10^3 1.6×10^2 4.5×10^1 1.2×10^3	 8300 7400	HSDB (2015) Mackay et al. (2006c) Schüürmann (2000) Mackay et al. (1995) Hilal et al. (2008) Kühne et al. (2005) Kühne et al. (2005)	V V V V Q Q ?	
1,3-dihydroxybenzene $C_6H_4(OH)_2$ (resorcinol) [108-46-3]	1.0×10^5 8.5×10^4 5.0×10^3 6.4×10^4 8.1×10^4 5.3×10^4	 6300 	HSDB (2015) Mackay et al. (2006c) Schüürmann (2000) Goldstein (1982) Goldstein (1982) Hilal et al. (2008)	V V V X X Q	 181 116
1,4-dihydroxybenzene $C_6H_4(OH)_2$ (hydroquinone) [123-31-9]	2.6×10^5 2.5×10^5 3.2×10^4 2.5×10^5 2.6×10^5 3.7×10^4 1.7×10^5	 8300 	HSDB (2015) Mackay et al. (2006c) Schüürmann (2000) Mackay et al. (1995) Meylan and Howard (1991) Hilal et al. (2008) Kühne et al. (2005) Meylan and Howard (1991)	V V V V V Q Q Q	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
		7700	Kühne et al. (2005)	?	
1,2,3-benzenetriol $C_6H_6O_3$ (pyrogallic acid) [87-66-1]	6.3×10^{4}		HSDB (2015)	V	
hexylresorcinol $C_{12}H_{18}O_2$ [136-77-6]	3.8×10^{4}		HSDB (2015)	Q	38
2,6-bis(1,1-dimethylethyl)phenol $C_{14}H_{22}O$ [128-39-2]	3.1		HSDB (2015)	Q	38
4-(1-methyl-1-phenylethyl)phenol $C_{15}H_{16}O$ [599-64-4]	1.1×10^{2}		HSDB (2015)	Q	182
2,2',3,3'-tetrahydro-3,3,3',3'-tetramethyl-1,1'-spirobi(1H-indene)-6,6'-diol	1.5×10^{6}		Zhang et al. (2010)	Q	107, 108
$C_{21}H_{24}O_2$	1.0×10^{6}		Zhang et al. (2010)	Q	107, 109
[1568-80-5]	2.2×10^{6}		Zhang et al. (2010)	Q	107, 110
	8.2×10^{5}		Zhang et al. (2010)	Q	107, 111
4,4'-(3,3,5-trimethylcyclohexane-1,1-diyl)diphenol	4.4×10^{5}		Zhang et al. (2010)	Q	107, 108
$C_{21}H_{26}O_2$	3.2×10^{5}		Zhang et al. (2010)	Q	107, 109
[129188-99-4]	2.7×10^{6}		Zhang et al. (2010)	Q	107, 110
	7.9×10^{5}		Zhang et al. (2010)	Q	107, 111
3,3,3',3'-tetramethyl-1,1'-spirobi(indan)-5,5',6,6'-tetrol	1.4×10^{14}		Zhang et al. (2010)	Q	107, 108
$C_{21}H_{24}O_4$	1.6×10^{10}		Zhang et al. (2010)	Q	107, 109
[77-08-7]	2.0×10^{11}		Zhang et al. (2010)	Q	107, 110
	2.7×10^{10}		Zhang et al. (2010)	Q	107, 111
9,9-bis(4-hydroxyphenyl)fluorene	8.4×10^{8}		Zhang et al. (2010)	Q	107, 108
$C_{25}H_{18}O_2$	6.2×10^{7}		Zhang et al. (2010)	Q	107, 109
[3236-71-3]	2.1×10^{8}		Zhang et al. (2010)	Q	107, 110
	3.1×10^{9}		Zhang et al. (2010)	Q	107, 111
Peroxides (ROOH) and peroxy radicals (ROO)					
methyl hydroperoxide	2.9	5200	Warneck and Williams (2012)	L	
CH_3OOH	3.0	5300	Sander et al. (2011)	L	
(methylperoxide)	3.0	5300	Sander et al. (2006)	L	
[3031-73-0]	3.1	5300	Staudinger and Roberts (2001)	L	
	2.5	4400	Lia et al. (2004)	M	
	1.2×10^{1}		Sauer (1997)	M	183
	3.1	5200	O'Sullivan et al. (1996)	M	
	3.0	5300	Lind and Kok (1994)	M	16
	9.0×10^{-1}		Hilal et al. (2008)	Q	
		6200	Kühne et al. (2005)	Q	
		5200	Kühne et al. (2005)	?	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
ethyl hydroperoxide	3.3	6000	Sander et al. (2011)	L	
C_2H_5OOH	1.1×10^{1}		Sauer (1997)	M	183
(ethylperoxide)	3.3	6000	O'Sullivan et al. (1996)	M	
[3031-74-1]	5.8×10^{-1}		Hilal et al. (2008)	Q	
		6600	Kühne et al. (2005)	Q	
		6000	Kühne et al. (2005)	?	
hydroxymethyl hydroperoxide	1.7×10^{4}	9900	Sander et al. (2011)	L	
$HOCH_2OOH$	1.7×10^{4}	9900	Sander et al. (2006)	L	
(HMHP; HMP)	1.6×10^{4}	10000	Staudinger and Roberts (2001)	L	
[15932-89-5]	1.6×10^{4}	9700	O'Sullivan et al. (1996)	M	
	1.6×10^{4}	10000	Staffelbach and Kok (1993)	M	
	4.7×10^{3}	1500	Zhou and Lee (1992)	M	
		8600	Kühne et al. (2005)	Q	
		10000	Kühne et al. (2005)	?	
bis-(hydroxymethyl)-peroxide	$>9.9\times10^{4}$		Staffelbach and Kok (1993)	M	
$HOCH_2OOCH_2OH$	4.4×10^{3}	8400	Zhou and Lee (1992)	M	
(BHMP)		9400	Kühne et al. (2005)	Q	
[17088-73-2]		8500	Kühne et al. (2005)	?	
tert-butyl hydroperoxide	6.2×10^{-1}		HSDB (2015)	Q	38
$C_4H_{10}O_2$					
[75-91-2]					
di-*tert*-butylperoxide	8.2×10^{-4}		HSDB (2015)	Q	38
$C_8H_{18}O_2$	1.2×10^{-4}		Hilal et al. (2008)	Q	
[110-05-4]					
1-methyl-1-phenylethylhydroperoxide	2.1×10^{2}		HSDB (2015)	V	
$C_9H_{12}O_2$	2.3		Hilal et al. (2008)	Q	
[80-15-9]					
dicumyl peroxide	2.2×10^{-1}		HSDB (2015)	Q	38
$C_{18}H_{22}O_2$					
[80-43-3]					
methylperoxy radical	1.5×10^{-1}	3700	Leriche et al. (2000)	E	184
CH_3OO			Lelieveld and Crutzen (1991)	E	185
[2143-58-0]	5.9×10^{-2}	5600	Jacob (1986)	E	186
hydroxymethylperoxy radical	7.9×10^{2}	8200	Leriche et al. (2000)	E	184
$HOCH_2OO$					
[27828-51-9]					
peroxyacetyl radical	$<9.9\times10^{-4}$		Sander et al. (2011)	L	
$CH_3C(O)O_2$	$<9.9\times10^{-4}$		Sander et al. (2006)	L	
[36709-10-1]	$<9.9\times10^{-4}$		Villalta et al. (1996)	M	

Aldehydes (RCHO)

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
methanal	3.2×10^{1}	6800	Warneck and Williams (2012)	L	187
HCHO	3.2×10^{1}	7100	Sander et al. (2011)	L	187
(formaldehyde)	3.2×10^{1}	7100	Sander et al. (2006)	L	187
[50-00-0]	3.2×10^{1}	6800	Staudinger and Roberts (2001)	L	187
	3.2×10^{1}	6800	Staudinger and Roberts (1996)	L	187
	3.5×10^{1}	5700	Liu et al. (2015)	M	
	3.4×10^{1}	6400	Allou et al. (2011)	M	187
	5.3×10^{1}	1600	Seyfioglu and Odabasi (2007)	M	187
	9.9×10^{1}		Kim et al. (2000)	M	31, 187
	3.1×10^{1}	6500	Zhou and Mopper (1990)	M	188, 187
	3.1×10^{1}	7200	Betterton and Hoffmann (1988)	M	187
			Dong and Dasgupta (1986)	M	189
			Ledbury and Blair (1925)	M	190
			Blair and Ledbury (1925)	M	190
	3.0×10^{1}		Lide and Frederikse (1995)	V	187
	2.3		Hwang et al. (1992)	V	187
	6.9×10^{1}	6400	Chameides (1984)	T	187
	2.9×10^{1}	7200	Bell (1966)	X	191, 187
	5.9×10^{1}		Gaffney and Senum (1984)	X	187, 153
	4.5×10^{1}		Lee and Zhou (1993)	C	31, 187
			Hough (1991)	C	190
	1.4×10^{2}		Warneck (1988)	C	187
	2.8×10^{-2}		Hilal et al. (2008)	Q	
	1.8×10^{-1}		Nirmalakhandan et al. (1997)	Q	
	1.0×10^{2}		Meylan and Howard (1991)	Q	187
	4.2×10^{-2}		Abraham et al. (1990)	?	
	6.2×10^{1}		Seinfeld (1986)	?	7, 187
			Lelieveld and Crutzen (1991)	W	190
			Pandis and Seinfeld (1989)	W	190
ethanal	1.3×10^{-1}	5900	Sander et al. (2011)	L	
CH_3CHO	1.3×10^{-1}	5900	Sander et al. (2006)	L	
(acetaldehyde)	1.3×10^{-1}	5700	Staudinger and Roberts (2001)	L	
[75-07-0]	1.4×10^{-1}	5600	Staudinger and Roberts (1996)	L	
	1.5×10^{-1}	6400	Ji and Evans (2007)	M	
	1.1×10^{-1}		Straver and de Loos (2005)	M	
	1.5×10^{-1}		Marin et al. (1999)	M	
	1.3×10^{-1}	5700	Benkelberg et al. (1995)	M	
	1.7×10^{-1}	5000	Zhou and Mopper (1990)	M	188
	7.1×10^{-2}		Guitart et al. (1989)	M	19
	1.2×10^{-1}	6300	Betterton and Hoffmann (1988)	M	192
	1.2×10^{-1}	5800	Snider and Dawson (1985)	M	
	2.5×10^{-1}		Vitenberg et al. (1974)	M	147
	1.5×10^{-1}		Buttery et al. (1969)	M	
	1.2×10^{-1}		Marin et al. (1999)	V	
	1.2×10^{-1}		Hwang et al. (1992)	V	
	1.7×10^{-2}	4500	Janini and Quaddora (1986)	X	116
	1.7×10^{-1}	4700	Goldstein (1982)	X	116
	1.5×10^{-1}		Gaffney and Senum (1984)	X	153
	1.5×10^{-1}		Pierotti et al. (1959)	X	193
	1.1×10^{-1}		Hilal et al. (2008)	Q	
		5200	Kühne et al. (2005)	Q	
	1.4×10^{-1}		Marin et al. (1999)	Q	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	1.5×10^{-1}		Nirmalakhandan et al. (1997)	Q	
	1.5×10^{-1}		Mackay et al. (2006c)	?	7
		5800	Kühne et al. (2005)	?	
	9.8×10^{-2}		Yaws and Yang (1992)	?	92
	1.5×10^{-1}		Abraham et al. (1990)	?	
propanal	9.9×10^{-2}	4300	Sander et al. (2011)	L	
C_2H_5CHO	9.9×10^{-2}	4300	Sander et al. (2006)	L	
(propionaldehyde)	1.3×10^{-1}		Liu et al. (2015)	M	126
[123-38-6]	9.1×10^{-2}		Kim and Kim (2014)	M	
	1.3×10^{-1}	5800	Ji and Evans (2007)	M	
	1.3×10^{-1}	5700	Zhou and Mopper (1990)	M	188
	1.3×10^{-1}		Buttery et al. (1969)	M	
	7.5×10^{-2}		Buttery et al. (1965)	M	
	1.3×10^{-1}		Mackay et al. (2006c)	V	
	1.3×10^{-2}		Mackay et al. (1995)	V	
	1.6×10^{-1}		Amoore and Buttery (1978)	V	
	5.2×10^{-2}	5600	Schaffer and Daubert (1969)	X	116
	2.7×10^{-2}	2400	Janini and Quaddora (1986)	X	116
	1.2×10^{-1}		Hilal et al. (2008)	Q	
		5500	Kühne et al. (2005)	Q	
	1.2×10^{-1}		Nirmalakhandan et al. (1997)	Q	
	1.3×10^{-1}		Mackay et al. (2006c)	?	7
		5000	Kühne et al. (2005)	?	
	1.3×10^{-1}		Abraham et al. (1990)	?	
butanal	9.5×10^{-2}	6200	Sander et al. (2011)	L	
C_3H_7CHO	9.5×10^{-2}	6200	Sander et al. (2006)	L	
(butyraldehyde)	6.1×10^{-2}		Kim and Kim (2014)	M	
[123-72-8]	8.9×10^{-2}	6200	Ji and Evans (2007)	M	
	9.5×10^{-2}	6200	Zhou and Mopper (1990)	M	188
	8.6×10^{-2}		Buttery et al. (1969)	M	
	6.4×10^{-2}		Buttery et al. (1965)	M	
	6.5×10^{-2}		Mackay et al. (2006c)	V	
	6.5×10^{-2}		Mackay et al. (1995)	V	
	1.0×10^{-1}		Hwang et al. (1992)	V	
	6.7×10^{-2}		Amoore and Buttery (1978)	V	
	5.4×10^{-2}	4000	Janini and Quaddora (1986)	X	116
	9.0×10^{-2}		Hilal et al. (2008)	Q	
		5900	Kühne et al. (2005)	Q	
	9.5×10^{-2}		Nirmalakhandan et al. (1997)	Q	
	8.6×10^{-2}		Mackay et al. (2006c)	?	7
		6400	Kühne et al. (2005)	?	
	8.6×10^{-2}		Abraham et al. (1990)	?	
2-methylpropanal	5.9×10^{-3}	4500	Strekowski and George (2005)	M	
C_4H_8O	3.3×10^{-2}		Karl et al. (2003)	M	
(isobutyraldehyde)	3.4×10^{-2}		Pollien et al. (2003)	M	
[78-84-2]	5.0×10^{-2}		Amoore and Buttery (1978)	M	
	5.5×10^{-2}		HSDB (2015)	V	
	6.7×10^{-2}		Amoore and Buttery (1978)	V	
	7.0×10^{-2}		Hilal et al. (2008)	Q	
		5000	Kühne et al. (2005)	Q	
	8.2×10^{-2}		Nirmalakhandan et al. (1997)	Q	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
		5100	Kühne et al. (2005)	?	
	5.1×10^{-2}		Abraham et al. (1990)	?	
pentanal	6.8×10^{-2}		Liu et al. (2015)	M	126
C_4H_9CHO	3.9×10^{-2}		Kim and Kim (2014)	M	
(valeraldehyde)	7.1×10^{-2}	6100	Ji and Evans (2007)	M	
[110-62-3]	6.3×10^{-2}	6300	Zhou and Mopper (1990)	M	188
	6.7×10^{-2}		Buttery et al. (1969)	M	
	5.8×10^{-2}		Buttery et al. (1965)	M	
	6.4×10^{-2}		Amoore and Buttery (1978)	V	
	7.2×10^{-2}		Hilal et al. (2008)	Q	
		6200	Kühne et al. (2005)	Q	
	7.3×10^{-2}		Nirmalakhandan et al. (1997)	Q	
	6.2×10^{-2}		Meylan and Howard (1991)	Q	
	6.7×10^{-2}		Mackay et al. (2006c)	?	7
		5500	Kühne et al. (2005)	?	
	4.4×10^{-2}		Yaws and Yang (1992)	?	92, 23
	6.7×10^{-2}		Abraham et al. (1990)	?	
2-methylbutanal	2.3×10^{-2}		Pollien et al. (2003)	M	
$C_5H_{10}O$	9.5×10^{-3}		Hertel et al. (2007)	Q	194
[96-17-3]					
3-methylbutanal	2.1×10^{-2}		Kim and Kim (2014)	M	
$C_5H_{10}O$	2.6×10^{-2}		Pollien et al. (2003)	M	
(isovaleraldehyde)	2.0×10^{-2}		Nelson and Hoff (1968)	M	115
[590-86-3]	2.5×10^{-2}		HSDB (2015)	V	
	7.3×10^{-2}		Hilal et al. (2008)	Q	
	9.8×10^{-3}		Hertel et al. (2007)	Q	194
hexanal	3.2×10^{-2}		Karl et al. (2003)	M	
$C_5H_{11}CHO$	4.9×10^{-2}	6500	Zhou and Mopper (1990)	M	188
[66-25-1]	4.6×10^{-2}		Buttery et al. (1969)	M	
	5.8×10^{-2}		Buttery et al. (1965)	M	
	3.5×10^{-2}		Amoore and Buttery (1978)	V	
	4.8×10^{-2}		Sieg et al. (2008)	C	
	5.8×10^{-2}		Hilal et al. (2008)	Q	
	1.1×10^{-2}		Hertel et al. (2007)	Q	194
		6600	Kühne et al. (2005)	Q	
	5.8×10^{-2}		Nirmalakhandan et al. (1997)	Q	
	4.6×10^{-2}		Mackay et al. (2006c)	?	7
		6900	Kühne et al. (2005)	?	
	1.9×10^{-2}		Yaws and Yang (1992)	?	92, 23
	4.6×10^{-2}		Abraham et al. (1990)	?	
2-methylpentanal	2.7×10^{-2}		HSDB (2015)	Q	38
$C_6H_{12}O$		5700	Kühne et al. (2005)	Q	
(2-methylvaleraldehyde)		5300	Kühne et al. (2005)	?	
[123-15-9]					

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
heptanal	3.3×10^{-2}	7500	Zhou and Mopper (1990)	M	188
$C_6H_{13}CHO$	3.7×10^{-2}		Buttery et al. (1969)	M	
[111-71-7]	6.0×10^{-2}		Buttery et al. (1965)	M	
	5.4×10^{-2}		Amoore and Buttery (1978)	V	
	3.7×10^{-2}		Sieg et al. (2008)	C	
	3.7×10^{-2}		Hilal et al. (2008)	Q	
		6900	Kühne et al. (2005)	Q	
	4.5×10^{-2}		Nirmalakhandan et al. (1997)	Q	
		7100	Kühne et al. (2005)	?	
	2.3×10^{-2}		Yaws and Yang (1992)	?	92, 23
	3.7×10^{-2}		Abraham et al. (1990)	?	
octanal	2.1×10^{-2}		Li and Carr (1993)	M	
$C_7H_{15}CHO$	2.1×10^{-2}	7400	Zhou and Mopper (1990)	M	188
[124-13-0]	1.9×10^{-2}		Buttery et al. (1969)	M	
	7.5×10^{-2}		Buttery et al. (1965)	M	
	2.9×10^{-2}		Amoore and Buttery (1978)	V	
	1.9×10^{-2}		Sieg et al. (2008)	C	
	3.9×10^{-2}		Hilal et al. (2008)	Q	
		7300	Kühne et al. (2005)	Q	
	3.6×10^{-2}		Nirmalakhandan et al. (1997)	Q	
		6200	Kühne et al. (2005)	?	
	2.0		Yaws and Yang (1992)	?	92, 23
	1.9×10^{-2}		Abraham et al. (1990)	?	
nonanal	1.0×10^{-2}	6700	Zhou and Mopper (1990)	M	188
$C_8H_{17}CHO$	1.3×10^{-2}		Buttery et al. (1969)	M	
[124-19-6]	7.1×10^{-2}		Buttery et al. (1965)	M	
	1.3×10^{-2}		Amoore and Buttery (1978)	V	
	1.4×10^{-2}		Sieg et al. (2008)	C	
	2.4×10^{-2}		Hilal et al. (2008)	Q	
	2.8×10^{-2}		Nirmalakhandan et al. (1997)	Q	
	2.0×10^{-2}		Meylan and Howard (1991)	Q	
	6.9×10^{-3}		Yaws and Yang (1992)	?	92, 23
	1.3×10^{-2}		Abraham et al. (1990)	?	
2-ethylhexanal	1.2×10^{-2}		HSDB (2015)	V	
$C_8H_{16}O$	2.7×10^{-2}		Hilal et al. (2008)	Q	
[123-05-7]					
3,5,5-trimethylhexanal	2.0×10^{-2}		HSDB (2015)	Q	38
$C_9H_{18}O$					
[5435-64-3]					
decanal	4.3×10^{-3}		Helburn et al. (2008)	M	
$C_9H_{19}CHO$	6.0×10^{-3}	8700	Zhou and Mopper (1990)	M	188
[112-31-2]	1.7×10^{-1}		Buttery et al. (1965)	M	
	5.5×10^{-3}		Sieg et al. (2008)	C	
	2.6×10^{-2}		Hilal et al. (2008)	Q	
		7900	Kühne et al. (2005)	Q	
		8500	Kühne et al. (2005)	?	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
undecanal		8300	Kühne et al. (2005)	Q	
$C_{11}H_{22}O$		8300	Kühne et al. (2005)	?	
[112-44-7]					
propenal	7.2×10^{-2}	5100	Snider and Dawson (1985)	M	
CH_2CHCHO	1.0×10^{-1}		Mackay et al. (2006c)	V	
(acrolein)	2.3		Lide and Frederikse (1995)	V	
[107-02-8]	1.0×10^{-2}		Mackay et al. (1995)	V	
	7.0×10^{-2}		Hwang et al. (1992)	V	
	1.3×10^{-1}		Suntio et al. (1988)	V	9
	1.0×10^{-1}	3800	Goldstein (1982)	X	116
	2.2		Howard (1989)	X	164
	8.1×10^{-2}		Gaffney and Senum (1984)	X	153
	1.8×10^{-1}		Suntio et al. (1988)	C	9
	1.4×10^{-1}		Ryan et al. (1988)	C	
	9.5×10^{-2}		Hilal et al. (2008)	Q	
		4600	Kühne et al. (2005)	Q	
	7.5×10^{-2}		Mackay et al. (2006c)	?	7
		3800	Kühne et al. (2005)	?	
2-methylpropenal	4.8×10^{-2}	4300	Ji and Evans (2007)	M	
C_4H_6O	6.4×10^{-2}		Iraci et al. (1999)	M	
(methacrolein)	4.2×10^{-2}	5300	Allen et al. (1998)	M	
[78-85-3]	5.2×10^{-2}		HSDB (2015)	V	
	9.5×10^{-2}		Hilal et al. (2008)	Q	
		4000	Kühne et al. (2005)	Q	
		4800	Kühne et al. (2005)	?	
2-butenal	9.7×10^{-2}		Hilal et al. (2008)	Q	
C_4H_6O	2.7×10^{-1}		Nirmalakhandan et al. (1997)	Q	
[4170-30-3]					
(E)-2-butenal	5.0×10^{-1}		Buttery et al. (1971)	M	
$CH_3CHCHCHO$	4.4×10^{-2}		Mackay et al. (2006c)	V	
(crotonaldehyde)	4.4×10^{-2}		Mackay et al. (1995)	V	
[123-73-9]	5.9×10^{-1}	3600	Goldstein (1982)	X	116
	5.0×10^{-1}		Gaffney and Senum (1984)	X	153
		5000	Kühne et al. (2005)	Q	
		4300	Kühne et al. (2005)	?	
	5.1×10^{-1}		Abraham et al. (1990)	?	
2-hexenal	6.2×10^{-2}		Hilal et al. (2008)	Q	
$C_6H_{10}O$	1.7×10^{-1}		Nirmalakhandan et al. (1997)	Q	
[505-57-7]					
(E)-2-hexenal	1.4×10^{-1}		Karl et al. (2003)	M	
$C_3H_7CHCHCHO$	2.0×10^{-1}		Buttery et al. (1971)	M	
(*trans*-2-hexenal)					
[6728-26-3]					
(E,E)-2,4-hexadienal	1.0		Buttery et al. (1971)	M	
$CH_3CHCHCHCHCHO$	3.9×10^{-1}		Hilal et al. (2008)	Q	
(*trans-trans*-2,4-hexadienal)					
[142-83-6]					

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2-heptenal $C_7H_{12}O$ [2463-63-0]	5.0×10^{-2}		Hilal et al. (2008)	Q	
(Z)-4-heptenal $C_7H_{12}O$ (*cis*-4-heptenal) [6728-31-0]	8.8×10^{-2}		Straver and de Loos (2005)	M	
2-octenal $C_8H_{14}O$ [2363-89-5]	4.1×10^{-2} 1.0×10^{-1}		Hilal et al. (2008) Nirmalakhandan et al. (1997)	Q Q	
(E)-2-octenal $C_5H_{11}CHCHCHO$ (*trans*-2-octenal) [2548-87-0]	1.3×10^{-1}		Buttery et al. (1971) Betterton (1992)	M W	 195
(E)-2-nonenal $C_9H_{16}O$ (*trans*-2-nonenal) [18829-56-6]	5.8×10^{-2}		Roberts and Pollien (1997)	M	
3,7-dimethyl-6-octenal $C_{10}H_{18}O$ (citronellal) [106-23-0]	2.5×10^{-2} 3.8×10^{-2}	4500	van Roon et al. (2005) HSDB (2015)	V Q	 38
3,7-dimethyl-2,6-octadienal $C_{10}H_{16}O$ (citral) [5392-40-5]	2.3×10^{-1}		HSDB (2015)	Q	38
benzaldehyde C_6H_5CHO [100-52-7]	3.8×10^{-1} 3.9×10^{-1} 3.2×10^{-1} 3.5×10^{-1} 4.2×10^{-1} 3.7×10^{-1} 1.6×10^{-1} 1.6×10^{-1} 3.6×10^{-1} 3.5×10^{-1} 3.6×10^{-1} 3.7×10^{-1} 7.7×10^{-1} 2.6×10^{-2} 2.6×10^{-2} 7.2×10^{-1} 4.4×10^{-1} 3.6×10^{-1}	5500 4800 6300 7000 4600 5100 5400 5800 5400 	Staudinger and Roberts (2001) Staudinger and Roberts (1996) Allou et al. (2011) Allen et al. (1998) Zhou and Mopper (1990) Betterton and Hoffmann (1988) Mackay et al. (2006c) Mackay et al. (1995) Hine and Mookerjee (1975) Bagno et al. (1991) Gaffney and Senum (1984) Schüürmann (2000) Hilal et al. (2008) Emel'yanenko et al. (2007) Hertel and Sommer (2006) Kühne et al. (2005) Nirmalakhandan et al. (1997) Mackay et al. (2006c) Kühne et al. (2005) Abraham et al. (1990)	L L M M M M V V V T X C Q Q Q Q Q ? ? ?	 188 192 196 153 7 166 166 7

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
phenylacetaldehyde	1.0×10^{-1}		Emel'yanenko et al. (2007)	Q	166
$C_6H_5CH_2CHO$	1.0×10^{-1}		Hertel and Sommer (2005)	Q	166
[122-78-1]					
2-methylbenzaldehyde	3.3×10^{-1}		HSDB (2015)	Q	38
C_8H_8O					
(o-tolualdehyde)					
[529-20-4]					
3-methylbenzaldehyde	3.3×10^{-1}		HSDB (2015)	Q	38
C_8H_8O					
(m-tolualdehyde)					
[620-23-5]					
4-methylbenzaldehyde	5.8×10^{-1}		HSDB (2015)	V	
C_8H_8O	5.4×10^{-1}		Abraham et al. (1994a)	R	
(p-tolualdehyde)	7.9×10^{-1}		Hilal et al. (2008)	Q	
[104-87-0]	5.2×10^{-1}		Nirmalakhandan et al. (1997)	Q	
2-hydroxybenzaldehyde	1.6×10^{1}		Hilal et al. (2008)	Q	
$C_6H_4(OH)CHO$					
(2-formylphenol)					
[90-02-8]					
3-hydroxybenzaldehyde	3.9×10^{3}		Gaffney and Senum (1984)	X	153
$C_6H_4(OH)CHO$	5.3×10^{3}		Hilal et al. (2008)	Q	
(3-formylphenol)	3.0×10^{4}		Nirmalakhandan et al. (1997)	Q	
[100-83-4]	3.8×10^{3}		Abraham et al. (1990)	?	
4-hydroxybenzaldehyde	1.9×10^{4}	8600	Parsons et al. (1971)	T	168
$C_6H_4(OH)CHO$	8.8×10^{2}		Hilal et al. (2008)	Q	
(4-formylphenol)	3.0×10^{4}		Nirmalakhandan et al. (1997)	Q	
[123-08-0]	1.9×10^{4}		Abraham et al. (1990)	?	
3-phenyl-2-propenal	2.8		HSDB (2015)	V	
C_9H_8O	1.4	6300	van Roon et al. (2005)	V	
(cinnamaldehyde)					
[104-55-2]					
α-amyl cinnamaldehyde	1.3		HSDB (2015)	Q	182
$C_{14}H_{18}O$					
[122-40-7]					
ethanedial	4.1×10^{3}	7500	Sander et al. (2011)	L	192
OHCCHO	4.9×10^{5}		Kampf et al. (2013)	M	197
(glyoxal)	4.1×10^{3}	7500	Ip et al. (2009)	M	192
[107-22-2]			Volkamer et al. (2009)	M	198
	2.6×10^{5}		Kroll et al. (2005)	M	192, 199
	3.6×10^{3}		Zhou and Mopper (1990)	M	192, 127
	$>3.0\times10^{3}$		Betterton and Hoffmann (1988)	M	192
	1.4×10^{4}		Lee and Zhou (1993)	C	31, 192
pentanedial	3.0×10^{2}	9200	Olson (1998)	M	
$OHC(CH_2)_3CHO$	4.1×10^{2}		HSDB (2015)	Q	38
(glutaraldehyde)		8800	Kühne et al. (2005)	Q	
[111-30-8]		9100	Kühne et al. (2005)	?	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
Ketones (RCOR)					
propanone	2.7×10^{-1}	5500	Sander et al. (2011)	L	
CH_3COCH_3	3.3×10^{-1}	5300	Poulain et al. (2010)	L	
(acetone)	2.8×10^{-1}	5100	Sander et al. (2006)	L	
[67-64-1]	2.6×10^{-1}	5700	Fogg and Sangster (2003)	L	
	2.8×10^{-1}	4800	Staudinger and Roberts (2001)	L	
	3.0×10^{-1}	4600	Staudinger and Roberts (1996)	L	
	2.9×10^{-1}	5100	Poulain et al. (2010)	M	
	2.6×10^{-1}	5400	Ji and Evans (2007)	M	
	2.4×10^{-1}	4200	Falabella et al. (2006)	M	89, 130
	2.6×10^{-1}	6400	Strekowski and George (2005)	M	
	2.4×10^{-1}		Straver and de Loos (2005)	M	
	2.4×10^{-1}	4300	Chai et al. (2005)	M	89
	1.0×10^{-1}		Ayuttaya et al. (2001)	M	131
	9.4×10^{-4}		Ayuttaya et al. (2001)	M	132
	5.3×10^{-1}		Ayuttaya et al. (2001)	M	133
	2.7×10^{-1}	5300	Benkelberg et al. (1995)	M	
	2.7×10^{-1}		Hoff et al. (1993)	M	
	3.2×10^{-1}	5800	Betterton (1991)	M	
	3.5×10^{-1}	3800	Zhou and Mopper (1990)	M	188
	1.2×10^{-1}		Guitart et al. (1989)	M	19
	1.4×10^{-1}		Hellmann (1987)	M	31
	2.5×10^{-1}	4800	Snider and Dawson (1985)	M	
	3.2×10^{-1}	5400	Schoene and Steinhanses (1985)	M	
	1.5×10^{-1}		Sato and Nakajima (1979a)	M	19
	2.5×10^{-1}		Vitenberg et al. (1975)	M	
	2.5×10^{-1}		Vitenberg et al. (1974)	M	
	3.2×10^{-1}		Vitenberg et al. (1974)	M	
	2.5×10^{-1}		Buttery et al. (1969)	M	
	3.1×10^{-1}		Nelson and Hoff (1968)	M	115
	2.8×10^{-1}		Burnett (1963)	M	
	1.8×10^{-2}		Abraham and Acree (2007)	V	
	2.6×10^{-1}		Hwang et al. (1992)	V	
	2.4×10^{-1}		Rathbun and Tai (1982)	V	
	3.1×10^{-2}		Hine and Weimar (1965)	R	
	3.0×10^{-1}		Butler and Ramchandani (1935)	R	
	2.5×10^{-1}	4900	Bagno et al. (1991)	T	196
	2.2×10^{-1}	5000	Schaffer and Daubert (1969)	X	116
	3.0×10^{-2}	3300	Janini and Quaddora (1986)	X	116
	3.0×10^{-1}		Gaffney and Senum (1984)	X	153
	2.7×10^{-1}		Cabani et al. (1981)	C	
	1.4×10^{-1}		Hilal et al. (2008)	Q	
		5500	Kühne et al. (2005)	Q	
	2.1×10^{-1}		Nirmalakhandan et al. (1997)	Q	
	2.5×10^{-1}		Taft et al. (1985)	Q	
	2.5×10^{-1}		Mackay et al. (2006c)	?	7
		5100	Kühne et al. (2005)	?	
	1.8×10^{-1}		Yaws et al. (1998)	?	
	2.3×10^{-1}		Yaws and Yang (1992)	?	92
	2.5×10^{-1}		Abraham et al. (1990)	?	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
propanone-2-13C CH_3COCH_3 (acetone-2-13C) [3881-06-9]	3.1×10^{-1}	5300	Hiatt (2013)	M	
1-hydroxypropanone CH_3COCH_2OH (hydroxyacetone) [116-09-6]	7.7×10^{1}		Lee and Zhou (1993)	C	31
butanone $C_2H_5COCH_3$ (methyl ethyl ketone; MEK) [78-93-3]	1.8×10^{-1}	5700	Sander et al. (2011)	L	
	1.8×10^{-1}	5700	Sander et al. (2006)	L	
	1.9×10^{-1}	4600	Fogg and Sangster (2003)	L	
	1.8×10^{-1}	5400	Staudinger and Roberts (2001)	L	
	2.0×10^{-1}	5000	Staudinger and Roberts (1996)	L	
	1.0×10^{-1}		Kim and Kim (2014)	M	
	9.5×10^{-2}		Helburn et al. (2008)	M	
	2.1×10^{-1}	5200	Ji and Evans (2007)	M	
	1.5×10^{-1}	4400	Falabella et al. (2006)	M	89, 130
	2.7×10^{-2}	12000	Strekowski and George (2005)	M	
	1.7×10^{-1}		Straver and de Loos (2005)	M	
	1.5×10^{-1}	4500	Chai et al. (2005)	M	89
			Cheng et al. (2004)	M	123
			Cheng et al. (2003)	M	123
	1.1×10^{-1}		Karl et al. (2003)	M	
	1.6×10^{-1}		Kim et al. (2000)	M	
	1.9×10^{-1}		Chaintreau et al. (1995)	M	
	1.4×10^{-1}	4700	Ettre et al. (1993)	M	89
	1.9×10^{-1}	5000	Zhou and Mopper (1990)	M	188
	6.8×10^{-2}	-5200	Ashworth et al. (1988)	M	103
	1.3×10^{-1}		Hellmann (1987)	M	31
	1.8×10^{-1}		Park et al. (1987)	M	
	1.7×10^{-1}	5700	Snider and Dawson (1985)	M	
	1.4×10^{-1}		Hawthorne et al. (1985)	M	
	1.0×10^{-1}		Friant and Suffet (1979)	M	23
	9.8×10^{-2}		Sato and Nakajima (1979a)	M	19
	1.8×10^{-1}		Vitenberg et al. (1975)	M	
	1.1×10^{-1}		Vitenberg et al. (1974)	M	
	1.9×10^{-1}		Rohrschneider (1973)	M	
	2.1×10^{-1}		Buttery et al. (1969)	M	
	1.1×10^{-2}		Abraham and Acree (2007)	V	
	2.8×10^{-1}		Mackay et al. (2006c)	V	
	2.8×10^{-1}		Mackay et al. (1995)	V	
	2.6×10^{-1}		Hwang et al. (1992)	V	
	1.6×10^{-1}		Rathbun and Tai (1982)	V	
	7.1×10^{-2}		Hine and Weimar (1965)	R	
	2.1×10^{-1}	5500	Bagno et al. (1991)	T	196
		5500	Della Gatta et al. (1981)	T	100
	7.1×10^{-2}	5800	Janini and Quaddora (1986)	X	116
	2.3×10^{-1}		Mackay et al. (1995)	C	
	4.1×10^{-1}		Harrison et al. (1993)	C	
	1.9×10^{-1}		Cabani et al. (1981)	C	
	1.3×10^{-1}		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
		5900	Kühne et al. (2005)	Q	
	1.6×10^{-1}		Nirmalakhandan et al. (1997)	Q	
	1.0×10^{-1}		Mackay et al. (2006c)	?	7
		5300	Kühne et al. (2005)	?	
	1.5×10^{-1}		Yaws et al. (1998)	?	
	3.1×10^{-1}		Betterton (1991)	?	
	2.1×10^{-1}		Abraham et al. (1990)	?	
butanone-1,1,1,3,3-d5 $C_2H_5COCH_3$ (methyl ethyl ketone-d5; MEK-d5) [24313-50-6]	3.7×10^{-1}	8200	Hiatt (2013)	M	
2-pentanone $C_3H_7COCH_3$ [107-87-9]	1.6×10^{-1}	5700	Ji and Evans (2007)	M	
	1.0×10^{-1}	4600	Falabella et al. (2006)	M	89, 130
	8.6×10^{-2}		Straver and de Loos (2005)	M	
	1.0×10^{-1}	4800	Chai et al. (2005)	M	89
	1.1×10^{-1}		Kim et al. (2000)	M	
	1.2×10^{-1}		Shiu and Mackay (1997)	M	
	9.0×10^{-2}		Hawthorne et al. (1985)	M	
	6.4×10^{-2}		Sato and Nakajima (1979a)	M	19
	1.7×10^{-1}		Vitenberg et al. (1974)	M	
	1.1×10^{-1}		Vitenberg et al. (1974)	M	200
	1.6×10^{-1}		Buttery et al. (1969)	M	
	9.2×10^{-2}		Nelson and Hoff (1968)	M	115
	1.5×10^{-1}		Mackay et al. (2006c)	V	
	1.5×10^{-1}		Shiu and Mackay (1997)	V	
	1.5×10^{-1}		Mackay et al. (1995)	V	
	2.6×10^{-1}		Rathbun and Tai (1982)	V	
	3.1×10^{-1}		Amoore and Buttery (1978)	V	
		5900	Della Gatta et al. (1981)	T	100
	9.1×10^{-2}	4600	Janini and Quaddora (1986)	X	116
	1.7×10^{-1}		Mackay et al. (1995)	C	
	1.0×10^{-1}		Hilal et al. (2008)	Q	
		6200	Kühne et al. (2005)	Q	
	1.2×10^{-1}		Nirmalakhandan et al. (1997)	Q	
	1.6×10^{-1}		Mackay et al. (2006c)	?	7
		6500	Kühne et al. (2005)	?	
	1.3×10^{-1}		Yaws et al. (1998)	?	
	1.5×10^{-1}		Abraham et al. (1990)	?	
	3.1×10^{-1}		Mackay and Yeun (1983)	?	
3-pentanone $C_2H_5COC_2H_5$ [96-22-0]	1.6×10^{-1}	5600	Ji and Evans (2007)	M	
	7.0×10^{-2}		Sato and Nakajima (1979a)	M	19
	9.7×10^{-5}		Saylor et al. (1938)	M	23
	8.4×10^{-2}		Mackay et al. (2006c)	V	
	1.2×10^{-1}		Mackay et al. (1995)	V	
	8.4×10^{-2}		Mackay et al. (1995)	V	
	2.8×10^{-1}		Rathbun and Tai (1982)	V	
	1.3×10^{-1}	6000	Bagno et al. (1991)	T	196
		6000	Della Gatta et al. (1981)	T	100
	2.0×10^{-1}	9200	Janini and Quaddora (1986)	X	116
	1.1×10^{-1}		Howard (1993)	X	164
	1.3×10^{-1}		Cabani et al. (1981)	C	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	9.2×10^{-2}		Hilal et al. (2008)	Q	
		6200	Kühne et al. (2005)	Q	
	1.2×10^{-1}		Nirmalakhandan et al. (1997)	Q	
		6800	Kühne et al. (2005)	?	
	1.2×10^{-1}		Yaws et al. (1998)	?	
	1.3×10^{-1}		Abraham et al. (1990)	?	
1-cyclopropyl-ethanone	9.5×10^{-1}	5900	Bagno et al. (1991)	T	196
C_5H_8O		5900	Della Gatta et al. (1981)	T	100
(cyclopropyl methyl ketone)	4.8×10^{-1}		Hilal et al. (2008)	Q	
[765-43-5]	6.4×10^{-1}		Nirmalakhandan et al. (1997)	Q	
3-methyl-2-butanone	8.7×10^{-2}		HSDB (2015)	V	
$C_5H_{10}O$	9.6×10^{-2}		Cabani et al. (1981)	V	
(isopropyl methyl ketone)	9.0×10^{-2}	5700	Bagno et al. (1991)	T	196
[563-80-4]		5700	Della Gatta et al. (1981)	T	100
	8.4×10^{-2}		Hilal et al. (2008)	Q	
		5300	Kühne et al. (2005)	Q	
	1.0×10^{-1}		Nirmalakhandan et al. (1997)	Q	
		7200	Kühne et al. (2005)	?	
	1.1×10^{-1}		Yaws et al. (1998)	?	
	9.7×10^{-2}		Abraham et al. (1990)	?	
cyclopentanone	8.2×10^{-1}		Hawthorne et al. (1985)	M	
C_5H_8O	1.1		Hilal et al. (2008)	Q	
[120-92-3]		5800	Kühne et al. (2005)	Q	
	7.2×10^{-1}		Nirmalakhandan et al. (1997)	Q	
		5600	Kühne et al. (2005)	?	
	1.1		Abraham et al. (1990)	?	
2-hexanone	1.5×10^{-1}	8600	Hiatt (2013)	M	
$C_6H_{12}O$	7.9×10^{-2}	4800	Falabella et al. (2006)	M	89, 130
[591-78-6]	1.1×10^{-1}		Straver and de Loos (2005)	M	
	8.6×10^{-2}	5100	Chai et al. (2005)	M	89
	4.3×10^{-2}		Sato and Nakajima (1979a)	M	19
	1.1×10^{-1}		HSDB (2015)	V	
	1.1×10^{-1}		Mackay et al. (2006c)	V	
	1.1×10^{-1}		Mackay et al. (1995)	V	
	1.0×10^{-1}		Meylan and Howard (1991)	V	
	1.0×10^{-1}		Cabani et al. (1981)	V	
		6200	Della Gatta et al. (1981)	T	100
	1.0×10^{-1}		Howard (1993)	X	164
	8.2×10^{-2}		Hilal et al. (2008)	Q	
		6600	Kühne et al. (2005)	Q	
	9.2×10^{-2}		Nirmalakhandan et al. (1997)	Q	
	8.5×10^{-2}		Meylan and Howard (1991)	Q	
		6200	Kühne et al. (2005)	?	
	1.2×10^{-1}		Yaws et al. (1998)	?	
	1.0×10^{-1}		Abraham et al. (1990)	?	
2-hexanone-1,1,1,3,3-d5	1.7×10^{-1}	9000	Hiatt (2013)	M	
$C_6H_{12}O$					
[4840-82-8]					

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
3-hexanone			Dewulf et al. (1999)	M	141
$C_6H_{12}O$	6.9×10^{-2}		Hilal et al. (2008)	Q	
[589-38-8]		6600	Kühne et al. (2005)	Q	
		5800	Kühne et al. (2005)	?	
	8.0×10^{-2}		Yaws et al. (1998)	?	
3-methyl-2-pentanone	7.3×10^{-2}		Hilal et al. (2008)	Q	
$C_6H_{12}O$	9.6×10^{-2}		Yaws et al. (1998)	?	
[565-61-7]					
4-methyl-2-pentanone	3.9×10^{-2}		Kim and Kim (2014)	M	
$(CH_3)_2CHCH_2COCH_3$	1.0×10^{-1}	8700	Hiatt (2013)	M	
(methyl isobutyl ketone; MIBK)	3.9×10^{-2}		Kim et al. (2000)	M	
[108-10-1]	4.3×10^{-2}	4600	Kolb et al. (1992)	M	102
	2.2×10^{-2}	160	Ashworth et al. (1988)	M	103
	6.5×10^{-2}		Hellmann (1987)	M	31
	3.1×10^{-2}		Sato and Nakajima (1979a)	M	19
	7.0×10^{-2}		HSDB (2015)	V	
	6.5×10^{-2}		Mackay et al. (2006c)	V	
	6.5×10^{-2}		Mackay et al. (1995)	V	
	7.2×10^{-2}		Hwang et al. (1992)	V	
	1.4×10^{-1}		Rathbun and Tai (1982)	V	
	7.1×10^{-2}		Cabani et al. (1981)	V	
	1.1×10^{-1}		Howard (1990)	X	164
	8.8×10^{-2}		Hilal et al. (2008)	Q	
		6600	Kühne et al. (2005)	Q	
	7.9×10^{-2}		Nirmalakhandan et al. (1997)	Q	
		5700	Kühne et al. (2005)	?	
	7.2×10^{-2}		Yaws et al. (1998)	?	
	3.0×10^{-1}		Betterton (1991)	?	
	7.0×10^{-2}		Abraham et al. (1990)	?	
2-methyl-3-pentanone	6.5×10^{-2}		Hilal et al. (2008)	Q	
$C_6H_{12}O$	6.4×10^{-2}		Yaws et al. (1998)	?	
[565-69-5]					
3,3-dimethyl-2-butanone	4.5×10^{-2}		HSDB (2015)	V	
$C_6H_{12}O$	7.6×10^{-2}	6000	Bagno et al. (1991)	T	196
(*tert*-butyl methyl ketone)		6000	Della Gatta et al. (1981)	T	100
[75-97-8]	4.7×10^{-2}		Hilal et al. (2008)	Q	
		5700	Kühne et al. (2005)	Q	
	7.9×10^{-2}		Nirmalakhandan et al. (1997)	Q	
		5400	Kühne et al. (2005)	?	
	6.4×10^{-2}		Yaws et al. (1998)	?	
cyclohexanone	8.2×10^{-1}		Hawthorne et al. (1985)	M	
$C_6H_{10}O$	1.1		HSDB (2015)	V	
[108-94-1]	3.8×10^{-1}		Mackay et al. (2006c)	V	
	3.8×10^{-1}		Mackay et al. (1995)	V	
	4.4×10^{-1}		Meylan and Howard (1991)	V	
	1.0		Hilal et al. (2008)	Q	
		6200	Kühne et al. (2005)	Q	
	5.6×10^{-1}		Nirmalakhandan et al. (1997)	Q	
	1.9×10^{-1}		Meylan and Howard (1991)	Q	
		6300	Kühne et al. (2005)	?	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	1.6		Abraham et al. (1990)	?	
2-heptanone	5.9×10^{-2}	5300	Falabella et al. (2006)	M	89, 130
$C_7H_{14}O$	6.8×10^{-2}	5700	Chai et al. (2005)	M	89
[110-43-0]	6.2×10^{-2}		Kim et al. (2000)	M	
	5.8×10^{-2}		Shiu and Mackay (1997)	M	
	3.7×10^{-2}		Sato and Nakajima (1979a)	M	19
	6.8×10^{-2}		Buttery et al. (1969)	M	
	7.5×10^{-2}		Mackay et al. (2006c)	V	
	7.5×10^{-2}		Shiu and Mackay (1997)	V	
	7.5×10^{-2}		Mackay et al. (1995)	V	
	1.7×10^{-1}		Rathbun and Tai (1982)	V	
	3.5×10^{-1}	4500	Janini and Quaddora (1986)	X	116
	6.2×10^{-2}		Hilal et al. (2008)	Q	
		6900	Kühne et al. (2005)	Q	
	7.2×10^{-2}		Nirmalakhandan et al. (1997)	Q	
	6.8×10^{-2}		Mackay et al. (2006c)	?	7
		6900	Kühne et al. (2005)	?	
	7.5×10^{-2}		Yaws et al. (1998)	?	
	6.9×10^{-2}		Abraham et al. (1990)	?	
	1.1×10^{-1}		Mackay and Yeun (1983)	?	
3-heptanone	1.1×10^{-1}		HSDB (2015)	V	
$C_7H_{14}O$		6900	Kühne et al. (2005)	Q	
[106-35-4]		6000	Kühne et al. (2005)	?	
	2.4×10^{-2}		Yaws et al. (1998)	?	
4-heptanone	4.1×10^{-2}		HSDB (2015)	V	
$C_7H_{14}O$	5.6×10^{-2}		Cabani et al. (1981)	V	
[123-19-3]	4.8×10^{-2}		Hilal et al. (2008)	Q	
		6900	Kühne et al. (2005)	Q	
	7.7×10^{-2}		Nirmalakhandan et al. (1997)	Q	
		7800	Kühne et al. (2005)	?	
	2.3×10^{-2}		Yaws et al. (1998)	?	23
	5.6×10^{-2}		Abraham et al. (1990)	?	
3-methyl-2-hexanone $C_7H_{14}O$ [2550-21-2]	3.2×10^{-2}		Yaws et al. (1998)	?	
4-methyl-2-hexanone $C_7H_{14}O$ [105-42-0]	3.3×10^{-2}		Yaws et al. (1998)	?	
5-methyl-2-hexanone	6.2×10^{-2}		HSDB (2015)	V	
$C_7H_{14}O$	7.7×10^{-2}		Hilal et al. (2008)	Q	
[110-12-3]		6900	Kühne et al. (2005)	Q	
		7600	Kühne et al. (2005)	?	
	2.7×10^{-2}		Yaws et al. (1998)	?	
2-methyl-3-hexanone $C_7H_{14}O$ [7379-12-6]	4.1×10^{-2}		Yaws et al. (1998)	?	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
4-methyl-3-hexanone $C_7H_{14}O$ [17042-16-9]	3.7×10^{-2}		Yaws et al. (1998)	?	
5-methyl-3-hexanone $C_7H_{14}O$ [623-56-3]	3.7×10^{-2}		Yaws et al. (1998)	?	
3-ethyl-2-pentanone $C_7H_{14}O$ [6137-03-7]	3.4×10^{-2}		Yaws et al. (1998)	?	
3,3-dimethyl-2-pentanone $C_7H_{14}O$ [20669-04-9]	4.5×10^{-2}		Yaws et al. (1998)	?	
3,4-dimethyl-2-pentanone $C_7H_{14}O$ [565-78-6]	4.3×10^{-2}		Yaws et al. (1998)	?	
4,4-dimethyl-2-pentanone $C_7H_{14}O$ [590-50-1]	5.5×10^{-2}		Yaws et al. (1998)	?	
2,2-dimethyl-3-pentanone $C_7H_{14}O$ [564-04-5]	5.5×10^{-2}		Yaws et al. (1998)	?	
2,4-dimethyl-3-pentanone	4.1×10^{-2}		Cabani et al. (1981)	V	
$C_7H_{14}O$	9.5×10^{-1}	6400	Bagno et al. (1991)	T	196
(diisopropyl ketone)		6400	Della Gatta et al. (1981)	T	100
[565-80-0]	3.5×10^{-2}		Hilal et al. (2008)	Q	
		6000	Kühne et al. (2005)	Q	
	6.0×10^{-2}		Nirmalakhandan et al. (1997)	Q	
		4900	Kühne et al. (2005)	?	
	2.8×10^{-2}		Yaws et al. (1998)	?	
cycloheptanone $C_7H_{12}O$ [502-42-1]	7.0×10^{-1}		Hilal et al. (2008)	Q	
2-methylcyclohexanone		5600	Kühne et al. (2005)	Q	
$C_7H_{12}O$		4600	Kühne et al. (2005)	?	
[583-60-8]					
4-methylcyclohexanone		6500	Kühne et al. (2005)	Q	
$C_7H_{12}O$		6100	Kühne et al. (2005)	?	
[589-92-4]					
dicyclopropylmethanone	3.1	7300	Bagno et al. (1991)	T	196
$C_7H_{10}O$		7300	Della Gatta et al. (1981)	T	100
(dicyclopropyl ketone) [1121-37-5]					

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2-octanone	5.2×10^{-2}		Buttery et al. (1969)	M	
$C_6H_{13}COCH_3$	4.9×10^{-2}		Mackay et al. (2006c)	V	
[111-13-7]	4.9×10^{-2}		Mackay et al. (1995)	V	
	5.5×10^{-2}		Rathbun and Tai (1982)	V	
	5.1×10^{-2}		Hilal et al. (2008)	Q	
		7300	Kühne et al. (2005)	Q	
	5.7×10^{-2}		Nirmalakhandan et al. (1997)	Q	
	5.2×10^{-2}		Mackay et al. (2006c)	?	7
		7300	Kühne et al. (2005)	?	
	1.5×10^{-1}		Yaws et al. (1998)	?	9
	5.2×10^{-2}		Abraham et al. (1990)	?	
3-octanone	7.6×10^{-2}		HSDB (2015)	V	
$C_8H_{16}O$					
[106-68-3]					
4-octanone	3.6×10^{-2}		Hilal et al. (2008)	Q	
$C_8H_{16}O$					
[589-63-9]					
6-methyl-3-heptanone	3.7×10^{-2}		HSDB (2015)	Q	38
$C_8H_{16}O$					
[624-42-0]					
cyclohexyl methyl ketone	2.9×10^{-1}	7200	Bagno et al. (1991)	T	196
$C_6H_{11}COCH_3$	4.1×10^{-1}		Hilal et al. (2008)	Q	
[823-76-7]	3.1×10^{-1}		Nirmalakhandan et al. (1997)	Q	
2-nonanone	4.1×10^{-2}		Li and Carr (1993)	M	
$C_7H_{15}COCH_3$	2.7×10^{-2}		Buttery et al. (1969)	M	
[821-55-6]		7600	Abraham (1984)	V	
	4.1×10^{-2}		Hilal et al. (2008)	Q	
		7600	Kühne et al. (2005)	Q	
	4.4×10^{-2}		Nirmalakhandan et al. (1997)	Q	
		8100	Kühne et al. (2005)	?	
	2.9×10^{-2}		Yaws et al. (1998)	?	
	2.7×10^{-2}		Abraham et al. (1990)	?	
5-nonanone	3.5×10^{-2}		HSDB (2015)	V	
$C_9H_{18}O$	3.4×10^{-2}		Meylan and Howard (1991)	V	
(dibutyl ketone)	3.7×10^{-2}		Cabani et al. (1981)	V	
[502-56-7]	2.7×10^{-2}		Hilal et al. (2008)	Q	
		7600	Kühne et al. (2005)	Q	
	4.7×10^{-2}		Nirmalakhandan et al. (1997)	Q	
	3.6×10^{-2}		Meylan and Howard (1991)	Q	
		7900	Kühne et al. (2005)	?	
	3.4×10^{-2}		Yaws et al. (1998)	?	23
	3.5×10^{-2}		Abraham et al. (1990)	?	
2,6-dimethyl-4-heptanone	8.2×10^{-2}		HSDB (2015)	V	
$C_9H_{18}O$	3.1×10^{-2}		Hilal et al. (2008)	Q	
(diisobutyl ketone)		7600	Kühne et al. (2005)	Q	
[108-83-8]		5500	Kühne et al. (2005)	?	
	9.2×10^{-2}		Yaws et al. (1998)	?	27

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,2,4,4-tetramethyl-3-pentanone $C_9H_{18}O$ (di-(*tert*-butyl) ketone) [815-24-7]	2.3×10^{-2}		Bagno et al. (1991)	T	196
2-decanone $C_8H_{17}COCH_3$ [693-54-9]	2.1×10^{-2} 3.4×10^{-2} 1.4×10^{-1} 1.4×10^{-2} 2.1×10^{-2}		Abraham (1984) Hilal et al. (2008) Nirmalakhandan et al. (1997) Yaws et al. (1998) Abraham et al. (1990)	V Q Q ? ?	
2-undecanone $C_9H_{19}COCH_3$ [112-12-9]	1.6×10^{-2} 2.7×10^{-2} 2.8×10^{-2} 5.8×10^{-3} 1.5×10^{-2}		Buttery et al. (1969) Hilal et al. (2008) Nirmalakhandan et al. (1997) Yaws et al. (1998) Abraham et al. (1990)	M Q Q ? ?	
6-undecanone $C_{11}H_{22}O$ [927-49-1]	1.5×10^{-2}		Hilal et al. (2008)	Q	
2-dodecanone $C_{12}H_{24}O$ [6175-49-1]	2.1×10^{-3}		Yaws et al. (1998)	?	
2-tridecanone $C_{13}H_{26}O$ [593-08-8]	6.7×10^{-4}		Yaws et al. (1998)	?	
2-tetradecanone $C_{14}H_{28}O$ [2345-27-9]	2.1×10^{-4}		Yaws et al. (1998)	?	
2-pentadecanone $C_{15}H_{30}O$ [2345-28-0]	5.4×10^{-5}		Yaws et al. (1998)	?	
2-hexadecanone $C_{16}H_{32}O$ [18787-63-8]	1.7×10^{-5}		Yaws et al. (1998)	?	
2-heptadecanone $C_{17}H_{34}O$ [2922-51-2]	3.9×10^{-6}		Yaws et al. (1998)	?	
menthone $C_{10}H_{18}O$ [89-80-5]	5.7×10^{-2} 5.0×10^{-2} 6.2×10^{-2} 5.8×10^{-2}		Marin et al. (1999) Marin et al. (1999) HSDB (2015) Marin et al. (1999)	M V Q Q	 38
tricyclo[3.3.1.1(3,7)]decanone $C_{10}H_{14}O$ (2-adamantanone) [700-58-3]	1.4 7.5×10^{-1}	5800	van Roon et al. (2005) Cabani et al. (1981)	V V	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
3-buten-2-one	2.6×10^{-1}	4800	Ji and Evans (2007)	M	
C_4H_6O	4.0×10^{-1}		Iraci et al. (1999)	M	
(methyl vinyl ketone; MVK)	2.1×10^{-1}	7800	Allen et al. (1998)	M	
[78-94-4]	1.8×10^{-1}		Hilal et al. (2008)	Q	
		6000	Kühne et al. (2005)	Q	
		7800	Kühne et al. (2005)	?	
	4.3×10^{-1}		Betterton (1991)	?	
4-methyl-3-penten-2-one	2.7×10^{-1}		HSDB (2015)	V	
$C_6H_{10}O$	1.8×10^{-1}		Hilal et al. (2008)	Q	
[141-79-7]					
1-phenylethanone	1.1	7700	Staudinger and Roberts (2001)	L	
$C_6H_5COCH_3$	9.7×10^{-1}	6800	Hiatt (2013)	M	
(acetophenone)	9.7×10^{-1}	12000	Allen et al. (1998)	M	
[98-86-2]	9.3×10^{-1}		Shiu and Mackay (1997)	M	
	1.1	6000	Betterton (1991)	M	
	1.0		Mackay et al. (2006c)	V	
	1.0		Shiu and Mackay (1997)	V	
	1.0		Mackay et al. (1995)	V	
	9.2×10^{-1}		Hine and Mookerjee (1975)	V	
	9.5×10^{-1}	6400	Bagno et al. (1991)	T	196
	9.3×10^{-1}		Schüürmann (2000)	C	7
	1.1		Hilal et al. (2008)	Q	
		6100	Kühne et al. (2005)	Q	
	5.3×10^{-1}		Nirmalakhandan et al. (1997)	Q	
		6700	Kühne et al. (2005)	?	
	9.2×10^{-1}		Abraham et al. (1990)	?	
1-phenylethanone-d5	2.3	10000	Hiatt (2013)	M	
$C_6D_5COCH_3$					
(acetophenone-d5)					
[28077-64-7]					
phenyl ethyl ketone	7.6×10^{-2}		HSDB (2015)	V	
$C_9H_{10}O$	7.5×10^{-1}		Zhang et al. (2010)	Q	107, 108
(propiophenone)	7.2×10^{-1}		Zhang et al. (2010)	Q	107, 109
[93-55-0]	1.6		Zhang et al. (2010)	Q	107, 110
	9.7×10^{-1}		Zhang et al. (2010)	Q	107, 111
	8.6×10^{-1}		Hilal et al. (2008)	Q	
		6400	Kühne et al. (2005)	Q	
		7700	Kühne et al. (2005)	?	
4-methoxy-4-methyl-2-pentanone	5.1		HSDB (2015)	V	
$C_7H_{14}O_2$	1.8		Hilal et al. (2008)	Q	
[107-70-0]					
(4-methylphenyl)-ethanone	1.1		Abraham et al. (1994a)	R	
$C_9H_{10}O$	1.2		Hilal et al. (2008)	Q	
(4-methylacetophenone)	3.8×10^{-1}		Nirmalakhandan et al. (1997)	Q	
[122-00-9]					
4-methoxyphenyl methyl ketone	6.8×10^{-1}		Bagno et al. (1991)	T	196
$C_9H_{10}O_2$	6.9		Hilal et al. (2008)	Q	
[100-06-1]	1.3		Nirmalakhandan et al. (1997)	Q	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2-methyl-5-(1-methylethenyl)-2-cyclohexen-1-one	4.9×10^{-1}		Amoore and Buttery (1978)	M	
$C_{10}H_{14}O$	5.5×10^{-1}		Amoore and Buttery (1978)	V	
(carvone)	8.0×10^{-1}		Hilal et al. (2008)	Q	
[6485-40-1]					
benzophenone	1.7×10^{1}		Mackay et al. (2006c)	V	
$C_{13}H_{10}O$	6.1	9400	Bagno et al. (1991)	T	196
(diphenyl ketone)	5.2		HSDB (2015)	Q	38
[119-61-9]	5.1		Zhang et al. (2010)	Q	107, 108
	2.9		Zhang et al. (2010)	Q	107, 109
	3.6×10^{1}		Zhang et al. (2010)	Q	107, 110
	3.4×10^{1}		Zhang et al. (2010)	Q	107, 111
3,5,5-trimethyl-2-cyclohexen-1-one	1.5		HSDB (2015)	V	
$C_9H_{14}O$	1.7		Mackay et al. (2006d)	V	
(isophorone)	1.7		Hwang et al. (1992)	V	
[78-59-1]	1.7		Suntio et al. (1988)	V	9
	1.7	3900	Goldstein (1982)	X	116
	1.8		Suntio et al. (1988)	C	9
	6.9×10^{-1}		Hilal et al. (2008)	Q	
		7300	Kühne et al. (2005)	Q	
		7400	Kühne et al. (2005)	?	
bicyclo[2.2.1]heptan-2-one	4.3×10^{-1}	5100	van Roon et al. (2005)	V	
$C_7H_{10}O$					
(norcamphor; 2-norbornanone)					
[497-38-1]					
4-methyl-1-(1-methylethyl)-bicyclo[3.1.0]hexan-3-one	1.0×10^{-1}	4700	van Roon et al. (2005)	V	
$C_{10}H_{16}O$					
(thujone)					
[1125-12-8]					
isopropyl phenyl ketone	5.7×10^{-1}		Zhang et al. (2010)	Q	107, 108
$C_{10}H_{12}O$	3.9×10^{-1}		Zhang et al. (2010)	Q	107, 109
[611-70-1]	1.7		Zhang et al. (2010)	Q	107, 110
	8.2×10^{-1}		Zhang et al. (2010)	Q	107, 111
carvone	1.3×10^{-1}		HSDB (2015)	Q	38
$C_{10}H_{14}O$					
[99-49-0]					
thujone	6.2×10^{-1}		HSDB (2015)	Q	38
$C_{10}H_{16}O$					
[76231-76-0]					
9H-fluoren-9-one	1.5×10^{1}		HSDB (2015)	Q	38
$C_{13}H_8O$					
[486-25-9]					
anthrone	1.2×10^{1}		HSDB (2015)	Q	38
$C_{14}H_{10}O$					
[90-44-8]					

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one	7.0×10^{-2}		Zhang et al. (2010)	Q	107, 108
$C_{14}H_{22}O$	6.7×10^{-3}		Zhang et al. (2010)	Q	107, 109
[33704-61-9]	2.0×10^{1}		Zhang et al. (2010)	Q	107, 110
	4.8×10^{-2}		Zhang et al. (2010)	Q	107, 111
2,4,6-trimethylbenzophenone	3.8		Zhang et al. (2010)	Q	107, 108
$C_{16}H_{16}O$	3.8		Zhang et al. (2010)	Q	107, 109
[954-16-5]	1.5×10^{1}		Zhang et al. (2010)	Q	107, 110
	6.0		Zhang et al. (2010)	Q	107, 111
1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	2.5×10^{-2}		Zhang et al. (2010)	Q	107, 108
$C_{16}H_{26}O$	3.0×10^{-1}		Zhang et al. (2010)	Q	107, 109
[68155-66-8]	1.1×10^{1}		Zhang et al. (2010)	Q	107, 110
	4.0×10^{-2}		Zhang et al. (2010)	Q	107, 111
1-(2,3-dihydro-1,1,2,3,3,6-hexamethyl-1H-inden-5-yl)ethanone	3.1×10^{-1}		Zhang et al. (2010)	Q	107, 108
$C_{17}H_{24}O$	2.0		Zhang et al. (2010)	Q	107, 109
[15323-35-0]	5.2		Zhang et al. (2010)	Q	107, 110
	9.9×10^{-2}		Zhang et al. (2010)	Q	107, 111
celestolide	3.1×10^{-1}		Zhang et al. (2010)	Q	107, 108
$C_{17}H_{24}O$	2.4		Zhang et al. (2010)	Q	107, 109
[13171-00-1]	3.1		Zhang et al. (2010)	Q	107, 110
	8.8×10^{-2}		Zhang et al. (2010)	Q	107, 111
7H-benz[*de*]anthracen-7-one $C_{17}H_{10}O$ (benzanthrone) [82-05-3]	1.5×10^{2}		HSDB (2015)	Q	38
1-[2,3-dihydro-1,1,2,6-tetramethyl-3-(1-methylethyl)-1H-inden-5-yl]ethanone	2.3×10^{-1}		Zhang et al. (2010)	Q	107, 108
$C_{18}H_{26}O$	3.2		Zhang et al. (2010)	Q	107, 109
[68140-48-7]	4.4		Zhang et al. (2010)	Q	107, 110
	1.3×10^{-1}		Zhang et al. (2010)	Q	107, 111
tonalid	7.0×10^{-2}		HSDB (2015)	V	
$C_{18}H_{26}O$	2.3×10^{-1}		Zhang et al. (2010)	Q	107, 108
[21145-77-7]	2.4		Zhang et al. (2010)	Q	107, 109
	7.9		Zhang et al. (2010)	Q	107, 110
	7.9×10^{-2}		Zhang et al. (2010)	Q	107, 111
2,3-butanedione	7.3×10^{-1}	5700	Sander et al. (2011)	L	
$CH_3COCOCH_3$	5.6×10^{-1}	6700	Strekowski and George (2005)	M	
(biacetyl; dimethylglycol)	5.6×10^{-1}		Straver and de Loos (2005)	M	
[431-03-8]	1.0		Marin et al. (1999)	M	
	3.7×10^{-1}		Roberts and Pollien (1997)	M	
	7.3×10^{-1}	5700	Betterton (1991)	M	
	5.7×10^{-1}		Snider and Dawson (1985)	M	
	6.1×10^{-1}		Marin et al. (1999)	V	
	1.9		Gaffney and Senum (1984)	X	181
	1.9		Gaffney and Senum (1984)	X	153

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	3.8		Hilal et al. (2008)	Q	
		6500	Kühne et al. (2005)	Q	
	7.1×10^{-1}		Marin et al. (1999)	Q	
		6000	Kühne et al. (2005)	?	
2,4-pentanedione	1.7		Hellmann (1987)	M	31
$C_5H_8O_2$	4.3		HSDB (2015)	V	
(acetylacetone)	1.7×10^{1}		Hilal et al. (2008)	Q	
[123-54-6]		7300	Kühne et al. (2005)	Q	
		4400	Kühne et al. (2005)	?	
1,2-naphthalenedione $C_{10}H_6O_2$ [524-42-5]	2.3×10^{3}		HSDB (2015)	Q	38
1,4-naphthalenedione $C_{10}H_6O_2$ (1,4-naphthoquinone) [130-15-4]	5.0×10^{3}		HSDB (2015)	Q	38
menadione $C_{11}H_8O_2$ [58-27-5]	3.2×10^{3}		HSDB (2015)	Q	38
2,6-di-*tert*-butyl-*p*-benzoquinone $C_{14}H_{20}O_2$ [719-22-2]	6.2×10^{2}		HSDB (2015)	Q	38
9,10-phenanthrenedione $C_{14}H_8O_2$ [84-11-7]	3.7×10^{3}		HSDB (2015)	Q	182
dibenzoylmethane	7.5×10^{3}		Zhang et al. (2010)	Q	107, 108
$C_{15}H_{12}O_2$	8.0×10^{2}		Zhang et al. (2010)	Q	107, 109
[120-46-7]	6.9×10^{4}		Zhang et al. (2010)	Q	107, 110
	1.3×10^{4}		Zhang et al. (2010)	Q	107, 111
2-ethyl-9,10-anthracenedione	2.1×10^{3}		Zhang et al. (2010)	Q	107, 108
$C_{16}H_{12}O_2$	4.2×10^{2}		Zhang et al. (2010)	Q	107, 109
[84-51-5]	1.6×10^{2}		Zhang et al. (2010)	Q	107, 110
	1.1×10^{4}		Zhang et al. (2010)	Q	107, 111
9,10-anthracenedione	4.2×10^{2}		HSDB (2015)	V	
$C_{14}H_8O_2$	3.1×10^{3}		Zhang et al. (2010)	Q	107, 108
[84-65-1]	5.6×10^{2}		Zhang et al. (2010)	Q	107, 109
	1.7×10^{2}		Zhang et al. (2010)	Q	107, 110
	2.5×10^{4}		Zhang et al. (2010)	Q	107, 111
Carboxylic acids (RCOOH) and peroxy carboxylic acids (RCOOOH)					
methanoic acid	8.8×10^{1}	6100	Sander et al. (2011)	L	
HCOOH	8.8×10^{1}	6100	Sander et al. (2006)	L	
(formic acid)	6.7×10^{1}	5900	Staudinger and Roberts (2001)	L	
[64-18-6]	8.8×10^{1}	6100	Johnson et al. (1996)	M	
	5.4×10^{1}		Khan et al. (1995)	M	
	5.4×10^{1}	5600	Khan and Brimblecombe (1992)	M	
	1.3×10^{2}		Servant et al. (1991)	M	201

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	1.5×10^1		Hwang et al. (1992)	V	
		5700	Abraham (1984)	V	
		5600	Abraham (1984)	R	202
		5700	Winiwarter et al. (1988)	T	203
	3.7×10^1	5700	Jacob (1986)	T	204
	5.5×10^1		Keene and Galloway (1986)	T	
	7.5×10^1		Johnson (1990)	X	20
	5.9×10^1		Gaffney and Senum (1984)	X	153, 205
	5.1×10^1		Johnson et al. (1996)	C	
	5.1×10^1		Keene et al. (1995)	C	
	5.3×10^1		Keene et al. (1995)	C	
	3.7×10^1	5700	Lelieveld and Crutzen (1991)	C	
	3.5×10^1	5700	Pandis and Seinfeld (1989)	C	
	2.3×10^2		Hilal et al. (2008)	Q	
		5800	Kühne et al. (2005)	Q	
		6500	Kühne et al. (2005)	?	
	1.3×10^1		Yaws (1999)	?	
	8.9		Yaws and Yang (1992)	?	92
ethanoic acid CH_3COOH (acetic acid) [64-19-7]	4.0×10^1	6200	Sander et al. (2011)	L	
	4.0×10^1	6200	Sander et al. (2006)	L	
	4.6×10^1	6300	Staudinger and Roberts (2001)	L	
	1.4×10^1		von Hartungen et al. (2004)	M	
	4.0×10^1	6300	Johnson et al. (1996)	M	
	5.4×10^1		Khan et al. (1995)	M	
	5.4×10^1	8300	Khan and Brimblecombe (1992)	M	
	9.2×10^1		Servant et al. (1991)	M	201
			Fredenhagen and Liebster (1932)	M	123
	9.1		Hwang et al. (1992)	V	
		6300	Abraham (1984)	V	
		6200	Abraham (1984)	R	202
	8.7×10^1	6400	Jacob et al. (1989)	T	
		6400	Winiwarter et al. (1988)	T	203
	8.7×10^1		Keene and Galloway (1986)	T	
	9.7	4900	Goldstein (1982)	X	116
	9.9×10^1		Gaffney and Senum (1984)	X	153, 205
	5.1×10^1		Johnson et al. (1996)	C	
	5.2×10^1		Keene et al. (1995)	C	
	8.5×10^1		Keene et al. (1995)	C	
	1.3×10^2		Hilal et al. (2008)	Q	
		6100	Kühne et al. (2005)	Q	
	3.9×10^1		Nirmalakhandan and Speece (1988a)	Q	
		6200	Kühne et al. (2005)	?	
	8.2		Yaws and Yang (1992)	?	92
	3.3×10^1		Abraham et al. (1990)	?	
	3.3×10^1		Hine and Mookerjee (1975)	?	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
propanoic acid	1.5×10^1		von Hartungen et al. (2004)	M	
C_2H_5COOH	5.6×10^1		Khan et al. (1995)	M	
(propionic acid)	5.5×10^1		Khan and Brimblecombe (1992)	M	
[79-09-4]	6.1×10^1		Servant et al. (1991)	M	201
	2.2×10^1		Butler and Ramchandani (1935)	M	
		6800	Abraham (1984)	V	
		6800	Abraham (1984)	R	202
	7.0×10^1		Hilal et al. (2008)	Q	
	3.4×10^1		Nirmalakhandan and Speece (1988a)	Q	
	2.2×10^1		Abraham et al. (1990)	?	
	2.2×10^1		Hine and Mookerjee (1975)	?	
butanoic acid	9.7		von Hartungen et al. (2004)	M	
C_3H_7COOH	4.7×10^1		Khan et al. (1995)	M	
(butyric acid)	4.5×10^1		Khan and Brimblecombe (1992)	M	
[107-92-6]	1.8×10^1		Butler and Ramchandani (1935)	M	
	9.4		Hwang et al. (1992)	V	
		7100	Abraham (1984)	V	
		7300	Abraham (1984)	R	202
	4.4×10^1		Hilal et al. (2008)	Q	
	2.7×10^1		Nirmalakhandan and Speece (1988a)	Q	
	1.8×10^1		Abraham et al. (1990)	?	
	1.8×10^1		Hine and Mookerjee (1975)	?	
2-methylpropanoic acid	9.6		von Hartungen et al. (2004)	M	
$(CH_3)_2CHCOOH$	1.1×10^1		Khan et al. (1995)	M	
(isobutyric acid)	1.1×10^1		Khan and Brimblecombe (1992)	M	
[79-31-2]	5.6×10^1		Servant et al. (1991)	M	201
	1.4		Mackay et al. (2006c)	V	
	2.5×10^1		Hilal et al. (2008)	Q	
pentanoic acid	2.3×10^1	6900	Staudinger and Roberts (2001)	L	
C_4H_9COOH	1.2×10^1		von Hartungen et al. (2004)	M	
(valeric acid)	2.3×10^1	6600	Khan et al. (1995)	M	
[109-52-4]	2.1×10^1	6900	Khan and Brimblecombe (1992)	M	
	1.2×10^1		Mackay et al. (2006c)	V	
	1.2×10^1		Mackay et al. (1995)	V	
	1.6×10^1		Brimblecombe et al. (1992)	V	
		7500	Abraham (1984)	V	
	1.3×10^1		Amoore and Buttery (1978)	V	
		7700	Abraham (1984)	R	202
	3.3×10^1		Hilal et al. (2008)	Q	
		7200	Kühne et al. (2005)	Q	
	2.2×10^1		Nirmalakhandan et al. (1997)	Q	
		6900	Kühne et al. (2005)	?	
	1.3×10^1		Abraham et al. (1990)	?	
2-methylbutanoic acid $C_5H_{10}O_2$ [116-53-0]	1.6×10^1		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
3-methylbutanoic acid	1.1×10^1		von Hartungen et al. (2004)	M	
$(CH_3)_2CHCH_2COOH$	1.2×10^1		Khan et al. (1995)	M	
(isovaleric acid)	1.2×10^1		Khan and Brimblecombe (1992)	M	
[503-74-2]	1.2×10^1		Amoore and Buttery (1978)	M	
	1.6		Mackay et al. (2006c)	V	
	1.6		Mackay et al. (1995)	V	
	7.3		Amoore and Buttery (1978)	V	
	2.8×10^1		Hilal et al. (2008)	Q	
	1.2×10^1		Abraham et al. (1990)	?	
2,2-dimethylpropanoic acid	3.5		Khan et al. (1995)	M	
$(CH_3)_3CCOOH$	3.5		Khan and Brimblecombe (1992)	M	
(pivalic acid)	1.2×10^1		Hilal et al. (2008)	Q	
[75-98-9]					
hexanoic acid	1.3×10^1	6100	Staudinger and Roberts (2001)	L	
$C_5H_{11}COOH$	7.5		von Hartungen et al. (2004)	M	
(caproic acid)	1.3×10^1	6300	Khan et al. (1995)	M	
[142-62-1]	1.3×10^1	5900	Khan and Brimblecombe (1992)	M	
	1.7×10^1		Mackay et al. (2006c)	V	
	1.7		Mackay et al. (1995)	V	
	1.1×10^1		Brimblecombe et al. (1992)	V	
	2.0×10^1		Hwang et al. (1992)	V	
		8700	Abraham (1984)	V	
		8100	Abraham (1984)	R	202
	2.4×10^1		Hilal et al. (2008)	Q	
		7500	Kühne et al. (2005)	Q	
	1.7×10^1		Nirmalakhandan et al. (1997)	Q	
		7200	Kühne et al. (2005)	?	
	1.5×10^1		Abraham et al. (1990)	?	
2-methylpentanoic acid	1.1×10^1		Hilal et al. (2008)	Q	
$C_6H_{12}O_2$					
[97-61-0]					
2-ethylbutanoic acid	9.0		Hilal et al. (2008)	Q	
$C_6H_{12}O_2$					
[88-09-5]					
heptanoic acid	9.6		Brimblecombe et al. (1992)	V	
$C_7H_{14}O_2$		8500	Abraham (1984)	V	
[111-14-8]		8500	Abraham (1984)	R	202
	1.7×10^1		Hilal et al. (2008)	Q	
		7800	Kühne et al. (2005)	Q	
		7900	Kühne et al. (2005)	?	
	1.3×10^1		Abraham et al. (1990)	?	
4,4-dimethylpentanoic acid	4.3		Zhang et al. (2010)	Q	107, 108
$C_7H_{14}O_2$	1.4×10^1		Zhang et al. (2010)	Q	107, 109
[95823-36-2]	1.6×10^3		Zhang et al. (2010)	Q	107, 110
	1.6		Zhang et al. (2010)	Q	107, 111

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2-ethyl-2-methylbutanoic acid	4.3		Zhang et al. (2010)	Q	107, 108
$C_7H_{14}O_2$	5.4		Zhang et al. (2010)	Q	107, 109
[19889-37-3]	2.3×10^{2}		Zhang et al. (2010)	Q	107, 110
	1.6		Zhang et al. (2010)	Q	107, 111
octanoic acid	1.5×10^{-1}		Mackay et al. (2006c)	V	
$C_8H_{16}O_2$	1.5×10^{-1}		Mackay et al. (1995)	V	
(caprylic acid)	7.6		Brimblecombe et al. (1992)	V	
[124-07-2]		9600	Abraham (1984)	V	
		8900	Abraham (1984)	R	202
	1.3×10^{1}		Hilal et al. (2008)	Q	
		8200	Kühne et al. (2005)	Q	
		8400	Kühne et al. (2005)	?	
	1.1×10^{1}		Abraham et al. (1990)	?	
2-ethylhexanoic acid	3.5		HSDB (2015)	V	
$C_8H_{16}O_2$	3.4		Hilal et al. (2008)	Q	
[149-57-5]					
nonanoic acid	3.8		Brimblecombe et al. (1992)	V	
$C_9H_{18}O_2$	6.9		Hilal et al. (2008)	C	
(pelargic acid)	9.9		Hilal et al. (2008)	Q	
[112-05-0]					
decanoic acid	6.5		Hilal et al. (2008)	C	
$C_{10}H_{20}O_2$	7.7		Hilal et al. (2008)	Q	
[334-48-5]					
3,3,5,5-tetramethylhexanoic acid	1.9		Zhang et al. (2010)	Q	107, 108
$C_{10}H_{20}O_2$	3.5		Zhang et al. (2010)	Q	107, 109
	1.0×10^{3}		Zhang et al. (2010)	Q	107, 110
	6.1×10^{-1}		Zhang et al. (2010)	Q	107, 111
undecanoic acid	5.8		Hilal et al. (2008)	Q	
$C_{11}H_{22}O_2$					
[112-37-8]					
dodecanoic acid	4.5		Hilal et al. (2008)	Q	
$C_{12}H_{24}O_2$					
[143-07-7]					
octadecanoic acid	2.5×10^{5}		Mackay et al. (1995)	V	
$C_{18}H_{36}O_2$	8.4×10^{-1}		Hilal et al. (2008)	Q	
(stearic acid)					
[57-11-4]					
propenoic acid	3.1×10^{1}		Lide and Frederikse (1995)	V	
$C_3H_4O_2$	2.2×10^{1}		Hilal et al. (2008)	Q	
(acrylic acid)	2.4×10^{1}		Yaws and Yang (1992)	?	92
[79-10-7]					
(E)-2-butenoic acid	4.1×10^{1}		HSDB (2015)	V	
$C_4H_6O_2$	2.3×10^{1}		Hilal et al. (2008)	Q	
(crotonic acid)					
[3724-65-0]					

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
(Z)-2-butenoic acid $C_4H_6O_2$ (isocrotonic acid) [503-64-0]	2.3×10^{1}		Hilal et al. (2008)	Q	
2-methyl-2-propenoic acid $C_4H_6O_2$ (methacrylic acid) [79-41-4]	2.5×10^{1} 1.0 1.9×10^{1}		Khan et al. (1992) Mackay et al. (2006c) Hilal et al. (2008)	M V Q	
benzenecarboxylic acid C_6H_5COOH (benzoic acid) [65-85-0]	2.9×10^{2} 2.5×10^{2} 1.4×10^{2} 2.1 1.7×10^{2} 1.4×10^{2} 1.4×10^{2} 2.4×10^{2} 9.1×10^{1} 2.4×10^{2}	 6500 6700 6200 	Li et al. (2007) Mackay et al. (2006c) Lide and Frederikse (1995) Mackay et al. (1995) Meylan and Howard (1991) Goldstein (1982) Howard (1989) Hilal et al. (2008) Kühne et al. (2005) Meylan and Howard (1991) Kühne et al. (2005) Yaws and Yang (1992)	M V V V V X X Q Q Q ? ?	 116 164 92
sorbic acid $C_6H_8O_2$ [110-44-1]	2.0×10^{2}		HSDB (2015)	Q	38
D(-)-isoascorbic acid $C_6H_8O_6$ (erythorbic acid) [89-65-6]	2.4×10^{2}		HSDB (2015)	Q	38
shikimic acid $C_7H_{10}O_5$ [138-59-0]	3.7×10^{8}		HSDB (2015)	Q	38
4-hydroxybenzoic acid $C_7H_6O_3$ [99-96-7]	1.4×10^{6}		HSDB (2015)	V	
3,4,5-trihydroxybenzoic acid $C_7H_6O_5$ (gallic acid) [149-91-7]	1.2×10^{14}		HSDB (2015)	Q	38
3-methylbenzoic acid C_7H_7COOH (m-toluic acid) [99-04-7]	6.6 1.4×10^{-1} 8.2×10^{1} 1.2×10^{2} 5.1×10^{2} 1.1×10^{2}		Mackay et al. (2006c) Mackay et al. (1995) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	V V Q Q Q Q	 107, 108 107, 109 107, 110 107, 111
2-methylbenzoic acid $C_8H_8O_2$ (o-toluic acid) [118-90-1]	8.2×10^{1} 3.2×10^{1} 9.9×10^{1} 1.1×10^{2}		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
4-methylbenzoic acid	8.2×10^{1}		Zhang et al. (2010)	Q	107, 108
$C_8H_8O_2$	1.4×10^{2}		Zhang et al. (2010)	Q	107, 109
(*p*-toluic acid)	8.8×10^{2}		Zhang et al. (2010)	Q	107, 110
[99-94-5]	1.1×10^{2}		Zhang et al. (2010)	Q	107, 111
		7000	Kühne et al. (2005)	Q	
		7500	Kühne et al. (2005)	?	
2-hydroxy-benzoic acid	8.0×10^{2}		Mackay et al. (2006c)	V	
$C_7H_6O_3$	6.9×10^{2}		Mackay et al. (1995)	V	
(salicylic acid)	1.8		Mackay et al. (1995)	V	
[69-72-7]					
benzeneethanoic acid	1.5×10^{2}		Mackay et al. (2006c)	V	
$C_8H_8O_2$	1.8×10^{2}		Mackay et al. (1995)	V	
(phenylacetic acid)	1.4×10^{1}		Mackay et al. (1995)	V	
[103-82-2]	9.9×10^{2}		Hilal et al. (2008)	Q	
phthalic anhydride	1.6×10^{3}		Lide and Frederikse (1995)	V	
$C_8H_4O_3$					
[85-44-9]					
1,2-benzenedicarboxylic acid	4.9×10^{5}		HSDB (2015)	V	
$C_8H_6O_4$					
(phthalic acid)					
[88-99-3]					
terephthalic acid	2.5×10^{7}		HSDB (2015)	Q	182
$C_8H_6O_4$					
[100-21-0]					
isophthalic acid	4.5×10^{6}		HSDB (2015)	Q	38
$C_8H_6O_4$					
[121-91-5]					
dehydroacetic acid	2.9×10^{1}		HSDB (2015)	V	
$C_8H_8O_4$					
[520-45-6]					
caffeic acid	7.0×10^{10}		HSDB (2015)	Q	38
$C_9H_8O_4$					
[331-39-5]					
4-methylphthalic anhydride	1.4		Zhang et al. (2010)	Q	107, 108
$C_9H_6O_3$	6.4×10^{4}		Zhang et al. (2010)	Q	107, 109
[19438-61-0]	3.5×10^{1}		Zhang et al. (2010)	Q	107, 110
	3.6×10^{1}		Zhang et al. (2010)	Q	107, 111
p-tert-butylbenzoic acid	3.5×10^{1}		Zhang et al. (2010)	Q	107, 108
$C_{11}H_{14}O_2$	4.5×10^{1}		Zhang et al. (2010)	Q	107, 109
[98-73-7]	3.6×10^{2}		Zhang et al. (2010)	Q	107, 110
	4.2×10^{1}		Zhang et al. (2010)	Q	107, 111
benzoic acid, anhydride	7.0		Zhang et al. (2010)	Q	107, 108
$C_{14}H_{10}O_3$	3.7×10^{2}		Zhang et al. (2010)	Q	107, 109
[93-97-0]	6.5×10^{3}		Zhang et al. (2010)	Q	107, 110
	6.4×10^{2}		Zhang et al. (2010)	Q	107, 111

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
pyromellitic dianhydride	1.3×10^{3}		HSDB (2015)	Q	38
$C_{10}H_2O_6$	1.3×10^{3}		Zhang et al. (2010)	Q	107, 108
[89-32-7]	1.4×10^{11}		Zhang et al. (2010)	Q	107, 109
	4.8×10^{4}		Zhang et al. (2010)	Q	107, 110
	9.7×10^{5}		Zhang et al. (2010)	Q	107, 111
(Z,Z)-9,12-octadecadienoic acid	4.9×10^{1}		HSDB (2015)	V	
$C_{18}H_{32}O_2$					
(linoleic acid)					
[60-33-3]					
rosmarinic acid	3.7×10^{21}		HSDB (2015)	Q	182
$C_{18}H_{16}O_8$					
[537-15-5]					
ethanedioic acid	6.1×10^{6}		Compernolle and Müller (2014a)	V	
HOOCCOOH	7.1×10^{6}	9800	Clegg et al. (1996)	V	
(oxalic acid)	3.1×10^{4}	7300	Brimblecombe et al. (1992)	V	
[144-62-7]	6.9×10^{4}		Gaffney and Senum (1984)	X	153, 205
	2.4×10^{3}		Hilal et al. (2008)	Q	
	4.1×10^{5}		Meylan and Howard (1991)	Q	
	4.9×10^{6}		Saxena and Hildemann (1996)	E	158
propanedioic acid	3.8×10^{8}	11000	Compernolle and Müller (2014a)	V	
$HOOCCH_2COOH$	9.3×10^{7}	14000	Compernolle and Müller (2014a)	V	
(malonic acid)	3.9×10^{6}		Saxena and Hildemann (1996)	E	158
[141-82-2]					
butanedioic acid	2.7×10^{7}		HSDB (2015)	V	
$HOOC(CH_2)_2COOH$	4.1×10^{7}	11000	Compernolle and Müller (2014a)	V	
(succinic acid)	2.0×10^{7}	12000	Compernolle and Müller (2014a)	V	
[110-15-6]	3.0×10^{6}		Saxena and Hildemann (1996)	E	158
pentanedioic acid	1.9×10^{7}		Mentel et al. (2004)	M	
$HOOC(CH_2)_3COOH$	5.1×10^{7}	12000	Compernolle and Müller (2014a)	V	
(glutaric acid)	2.4×10^{7}	13000	Compernolle and Müller (2014a)	V	
[110-94-1]	2.2×10^{7}		Hilal et al. (2008)	Q	
	2.0×10^{6}		Saxena and Hildemann (1996)	E	158
hexanedioic acid	2.1×10^{6}		HSDB (2015)	V	
$HOOC(CH_2)_4COOH$	6.6×10^{7}	13000	Compernolle and Müller (2014a)	V	
(adipic acid)	1.1×10^{1}		Lide and Frederikse (1995)	V	
[124-04-9]	1.8×10^{5}	11000	Goldstein (1982)	X	116
	2.5×10^{7}		Hilal et al. (2008)	Q	
	2.0×10^{6}		Saxena and Hildemann (1996)	E	158
heptanedioic acid	8.1×10^{7}	15000	Compernolle and Müller (2014a)	V	
$C_7H_{12}O_4$					
(pimelic acid)					
[111-16-0]					
octanedioic acid	7.7×10^{7}	14000	Compernolle and Müller (2014a)	V	
$C_8H_{14}O_4$					
(suberic acid)					
[505-48-6]					

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
nonanedioic acid $C_9H_{16}O_4$ (azelaic acid) [123-99-9]	8.9×10^{7}	17000	Compernolle and Müller (2014a)	V	
decanedioic acid $C_{10}H_{18}O_4$ (sebacic acid) [111-20-6]	7.6×10^{7}		Compernolle and Müller (2014a)	V	
cis-butenedioic acid $HOOC(CH)_2COOH$ (maleic acid) [110-16-7]	1.4×10^{8} 9.9×10^{6}		Lide and Frederikse (1995) Saxena and Hildemann (1996)	V E	 158
methanoic peroxyacid $HCOOOH$ (peroxyformic acid) [107-32-4]	2.9×10^{1} 5.2		Sauer (1997) HSDB (2015)	M Q	183 38
ethanoic peroxyacid CH_3COOOH (peroxyacetic acid) [79-21-0]	8.3 7.3 2.4×10^{1} 8.3 6.5 1.8×10^{1}	5300 5600 5300 5900 6100 5300	Sander et al. (2011) Staudinger and Roberts (2001) Sauer (1997) O'Sullivan et al. (1996) Lind and Kok (1994) Hilal et al. (2008) Kühne et al. (2005) Kühne et al. (2005)	L L M M M Q Q ?	 183 16
Esters (RCOOR)					
1,3-dioxolan-2-one $C_3H_4O_3$ (ethylene carbonate) [96-49-1]	3.6×10^{-2}		HSDB (2015)	Q	38
carbonic acid, dimethyl ester $C_3H_6O_3$ [616-38-6]	1.6×10^{-2}		HSDB (2015)	Q	38
dimethyl dicarbonate $C_4H_6O_5$ [4525-33-1]	2.2×10^{-2}		HSDB (2015)	Q	38
methyl methanoate $HCOOCH_3$ (methyl formate) [107-31-3]	4.1×10^{-2} 4.1×10^{-2} 4.1×10^{-2} 3.9×10^{-2} 4.9×10^{-2} 4.9×10^{-2} 5.8×10^{-2} 6.4×10^{-2} 4.4×10^{-2} 4.4×10^{-2}	4000 4000 4100 4100 4200 	Sander et al. (2011) Kutsuna et al. (2005) Hoff et al. (1993) Hartkopf and Karger (1973) Mackay et al. (2006c) Mackay et al. (1995) Hilal et al. (2008) Kühne et al. (2005) Nirmalakhandan and Speece (1988a) Kühne et al. (2005) Betterton (1992) Abraham et al. (1990)	L M M M V V Q Q Q ? ? ?	 206

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	4.4×10^{-2}		Hine and Mookerjee (1975)	?	206
ethyl methanoate	3.4×10^{-2}	4600	Sander et al. (2011)	L	
$HCOOC_2H_5$	3.4×10^{-2}	4600	Kutsuna et al. (2005)	M	
(ethyl formate)	1.9×10^{-3}	4600	Hartkopf and Karger (1973)	M	
[109-94-4]	4.9×10^{-2}		Mackay et al. (2006c)	V	
	4.9×10^{-2}		Mackay et al. (1995)	V	
	3.1×10^{-2}		Abraham (1984)	V	
	3.5×10^{-2}		Hine and Mookerjee (1975)	V	
	3.1×10^{-2}		Hilal et al. (2008)	Q	
	5.7×10^{-2}		Nirmalakhandan and Speece (1988a)	Q	
	1.4×10^{-3}		Hoff et al. (1993)	?	7
	3.1×10^{-2}		Abraham et al. (1990)	?	
propyl methanoate	2.6×10^{-2}	5100	Sander et al. (2011)	L	
$HCOOC_3H_7$	2.6×10^{-2}	5100	Kutsuna et al. (2005)	M	
(propyl formate)	2.1×10^{-2}		Mackay et al. (2006c)	V	
[110-74-7]	2.7×10^{-2}		Hine and Mookerjee (1975)	V	
	2.3×10^{-2}		Hilal et al. (2008)	Q	
	4.4×10^{-2}		Nirmalakhandan and Speece (1988a)	Q	
	2.7×10^{-2}		Abraham et al. (1990)	?	
isopropyl methanoate	1.2×10^{-2}		Hine and Mookerjee (1975)	V	
$HCOOC_3H_7$	2.1×10^{-2}		Hilal et al. (2008)	Q	
(isopropyl formate)	3.9×10^{-2}		Nirmalakhandan and Speece (1988a)	Q	
[625-55-8]	1.2×10^{-2}		Abraham et al. (1990)	?	
(2-methylpropyl)-methanoate	1.8×10^{-2}		Mackay et al. (2006c)	V	
$HCOOC_4H_9$	1.8×10^{-2}		Mackay et al. (1995)	V	
(isobutyl formate)	1.7×10^{-2}		Hine and Mookerjee (1975)	V	
[542-55-2]	2.0×10^{-2}		Hilal et al. (2008)	Q	
	3.1×10^{-2}		Nirmalakhandan and Speece (1988a)	Q	
	1.7×10^{-2}		Abraham et al. (1990)	?	
(1,1-dimethylethyl)-methanoate $HCOOC_4H_9$ (*tert*-butyl formate; TBF) [762-75-4]	1.4×10^{-2}	3600	Arp and Schmidt (2004)	M	
methanoic acid, pentyl ester	1.3×10^{-2}		Hilal et al. (2008)	Q	
$C_6H_{12}O_2$	2.8×10^{-2}		Nirmalakhandan et al. (1997)	Q	
[638-49-3]					
isopentyl methanoate	1.5×10^{-2}		Hine and Mookerjee (1975)	V	
$HCOOC_5H_{11}$	1.7×10^{-2}		Hilal et al. (2008)	Q	
(isoamyl formate)	2.4×10^{-2}		Nirmalakhandan and Speece (1988a)	Q	
[110-45-2]	1.5×10^{-2}		Abraham et al. (1990)	?	
methanoic acid, hexyl ester	1.1×10^{-2}		Hilal et al. (2008)	Q	
$C_7H_{14}O_2$	1.6×10^{-2}		Nirmalakhandan et al. (1997)	Q	
[629-33-4]					

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
methyl ethanoate	8.1×10^{-2}	4900	Fenclová et al. (2014)	M	
CH_3COOCH_3	1.2×10^{-1}	7500	Hiatt (2013)	M	
(methyl acetate)	6.6×10^{-2}	4500	Arp and Schmidt (2004)	M	
[79-20-9]	7.7×10^{-2}	5000	Kieckbusch and King (1979)	M	
	8.6×10^{-2}		Buttery et al. (1969)	M	
	1.1×10^{-1}		Butler and Ramchandani (1935)	M	
	1.1×10^{-1}		Mackay et al. (2006c)	V	
	1.1×10^{-1}		Mackay et al. (1995)	V	
	1.1×10^{-1}	4800	Bagno et al. (1991)	T	196
	6.4×10^{-2}		Hilal et al. (2008)	Q	
		4500	Kühne et al. (2005)	Q	
	3.9×10^{-2}		Nirmalakhandan and Speece (1988a)	Q	
		4900	Kühne et al. (2005)	?	
	8.0×10^{-2}		Abraham et al. (1990)	?	
ethyl ethanoate	5.9×10^{-2}	5900	Sander et al. (2011)	L	
$CH_3COOC_2H_5$	6.2×10^{-2}	5500	Fenclová et al. (2014)	M	
(ethyl acetate)	5.1×10^{-2}		Aprea et al. (2007)	M	
[141-78-6]	5.9×10^{-2}	5900	Kutsuna et al. (2005)	M	
			Dewulf et al. (1999)	M	141
	4.4×10^{-2}	3900	Kolb et al. (1992)	M	102
	4.3×10^{-2}		Guitart et al. (1989)	M	19
	5.8×10^{-2}	5300	Kieckbusch and King (1979)	M	
	5.7×10^{-2}		Nelson and Hoff (1968)	M	115
	7.4×10^{-2}		Butler and Ramchandani (1935)	M	
	7.3×10^{-2}		Mackay et al. (2006c)	V	
	7.3×10^{-2}		Mackay et al. (1995)	V	
	3.6×10^{-1}		Hwang et al. (1992)	V	
	4.7×10^{-2}	5700	Janini and Quaddora (1986)	X	116
	3.6×10^{-2}		Hilal et al. (2008)	Q	
		4800	Kühne et al. (2005)	Q	
	4.1×10^{-2}		Nirmalakhandan and Speece (1988a)	Q	
		5200	Kühne et al. (2005)	?	
	8.8×10^{-2}		Hoff et al. (1993)	?	7
	5.8×10^{-2}		Abraham et al. (1990)	?	
ethyl ethanoate-1-13C $CH_3COOC_2H_5$ (ethyl acetate-1-13C) [3424-59-7]	7.1×10^{-2}	6500	Hiatt (2013)	M	
propyl ethanoate	4.5×10^{-2}	5900	Fenclová et al. (2014)	M	
$CH_3COOC_3H_7$	4.5×10^{-2}	5500	Kieckbusch and King (1979)	M	
(propyl acetate)	4.6×10^{-2}		Mackay et al. (2006c)	V	
[109-60-4]	4.6×10^{-2}		Mackay et al. (1995)	V	
	5.0×10^{-2}		Hine and Mookerjee (1975)	V	
	5.0×10^{-2}		Butler and Ramchandani (1935)	V	
	4.4×10^{-2}	6000	Janini and Quaddora (1986)	X	116
	2.9×10^{-2}		Hilal et al. (2008)	Q	
	3.3×10^{-2}		Nirmalakhandan and Speece (1988a)	Q	
	4.5×10^{-2}		Abraham et al. (1990)	?	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
ethanoic acid, 2-propenyl ester	7.6×10^{-2}		HSDB (2015)	V	
$C_5H_8O_2$	7.0×10^{-2}		Hilal et al. (2008)	Q	
[591-87-7]					
isopropyl ethanoate	3.5×10^{-2}		Hine and Mookerjee (1975)	V	
$CH_3COOC_3H_7$	2.9×10^{-2}	5500	Janini and Quaddora (1986)	X	116
(isopropyl acetate)	2.5×10^{-2}		Hilal et al. (2008)	Q	
[108-21-4]	2.9×10^{-2}		Nirmalakhandan and Speece (1988a)	Q	
	3.5×10^{-2}		Abraham et al. (1990)	?	
ethanol, 2-methoxy-, acetate	9.0		HSDB (2015)	V	
$C_5H_{10}O_3$					
(methyl cellosolve acetate)					
[110-49-6]					
glycerol monoacetate	2.4×10^{4}		HSDB (2015)	Q	38
$C_5H_{10}O_4$					
(acetin)					
[26446-35-5]					
1-propen-2-ol, acetate	5.5×10^{-3}		HSDB (2015)	Q	38
$C_5H_8O_2$					
(isopropenyl acetate)					
[108-22-5]					
butyl ethanoate	2.4×10^{-2}		Kim and Kim (2014)	M	
$CH_3COOC_4H_9$	3.5×10^{-2}	6300	Fenclová et al. (2014)	M	
(butyl acetate)	2.1×10^{-2}		Helburn et al. (2008)	M	
[123-86-4]	2.3×10^{-2}	4300	Kolb et al. (1992)	M	102
	3.5×10^{-2}	6000	Kieckbusch and King (1979)	M	
	3.2×10^{-2}		Mackay et al. (2006c)	V	
	3.2×10^{-2}		Mackay et al. (1995)	V	
	2.7×10^{-2}		Hwang et al. (1992)	V	
	3.0×10^{-2}		Hine and Mookerjee (1975)	V	
	3.5×10^{-2}	7500	Janini and Quaddora (1986)	X	116
	2.1×10^{-2}	3200	Goldstein (1982)	X	116
	2.3×10^{-2}		Hilal et al. (2008)	Q	
		5500	Kühne et al. (2005)	Q	
	2.6×10^{-2}		Nirmalakhandan and Speece (1988a)	Q	
		5300	Kühne et al. (2005)	?	
	3.5×10^{-2}		Abraham et al. (1990)	?	
sec-butyl acetate	2.3×10^{-2}		HSDB (2015)	V	
$C_6H_{12}O_2$					
[105-46-4]					
acetic acid, 1,1-dimethylethyl ester	2.4×10^{-2}		HSDB (2015)	Q	38
$C_6H_{12}O_2$					
(*tert*-butyl acetate)					
[540-88-5]					

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
(2-methylpropyl)-ethanoate	1.9×10^{-2}		Mackay et al. (2006c)	V	
$CH_3COOC_4H_9$	1.9×10^{-2}		Mackay et al. (1995)	V	
(isobutyl acetate)	2.2×10^{-2}		Hine and Mookerjee (1975)	V	
[110-19-0]	2.7×10^{-2}		Hilal et al. (2008)	Q	
		5500	Kühne et al. (2005)	Q	
	2.2×10^{-2}		Nirmalakhandan and Speece (1988a)	Q	
		4600	Kühne et al. (2005)	?	
	2.2×10^{-2}		Abraham et al. (1990)	?	
pentyl ethanoate	3.4×10^{-2}		Hellmann (1987)	M	31
$CH_3COOC_5H_{11}$	2.8×10^{-2}	6500	Kieckbusch and King (1979)	M	
(amyl acetate)	2.4×10^{-2}		Mackay et al. (2006c)	V	
[628-63-7]	2.4×10^{-2}		Mackay et al. (1995)	V	
	2.5×10^{-2}		Hine and Mookerjee (1975)	V	
	2.0×10^{-2}		Hilal et al. (2008)	Q	
	2.1×10^{-2}		Nirmalakhandan et al. (1997)	Q	
	2.1×10^{-2}		Nirmalakhandan and Speece (1988a)	Q	
	2.3×10^{-2}		Taft et al. (1985)	Q	
	2.8×10^{-2}		Abraham et al. (1990)	?	
1,2-propanediol, diacetate $C_7H_{12}O_4$ [623-84-7]	7.0×10^{1}		HSDB (2015)	Q	38
2-pentanol, acetate $C_7H_{14}O_2$ [626-38-0]	1.2×10^{-2}		HSDB (2015)	Q	38
isopentyl ethanoate	2.6×10^{-2}		Mackay et al. (2006c)	V	
$CH_3COOC_5H_{11}$	2.6×10^{-2}		Mackay et al. (1995)	V	
(isoamyl acetate)	2.1×10^{-2}		Meylan and Howard (1991)	V	
[123-92-2]	1.7×10^{-2}		Hine and Mookerjee (1975)	V	
	2.4×10^{-2}	5000	Goldstein (1982)	X	116
	2.6×10^{-2}		Hilal et al. (2008)	Q	
	1.8×10^{-2}		Meylan and Howard (1991)	Q	
	1.8×10^{-2}		Nirmalakhandan and Speece (1988a)	Q	
	1.7×10^{-2}		Abraham et al. (1990)	?	
hexyl ethanoate	1.5×10^{-2}		Karl et al. (2003)	M	
$CH_3COOC_6H_{13}$	5.2×10^{-3}		Mackay et al. (2006c)	V	
(hexyl acetate)	5.2×10^{-3}		Mackay et al. (1995)	V	
[142-92-7]	1.8×10^{-2}		Hine and Mookerjee (1975)	V	
	1.4×10^{-2}		Hilal et al. (2008)	Q	
	2.2×10^{-2}		Nirmalakhandan and Speece (1988a)	Q	
	1.8×10^{-2}		Abraham et al. (1990)	?	
4-methyl-2-pentyl ethanoate	1.7×10^{-2}		HSDB (2015)	V	
$C_8H_{16}O_2$	1.1×10^{-2}		Hilal et al. (2008)	Q	
[108-84-9]					
acetic acid, cyclohexyl ester $C_8H_{14}O_2$ (cyclohexyl acetate) [622-45-7]	8.2×10^{-2}		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
ethanol, 2-(2-ethoxyethoxy)-, acetate $C_8H_{16}O_4$ (diethylene glycol monoethyl ether acetate) [112-15-2]	4.3×10^{2}		HSDB (2015)	V	
acetic acid, phenyl ester $C_8H_8O_2$ [122-79-2]	1.5×10^{-1}		HSDB (2015)	Q	38
acetic acid, phenylmethyl ester $C_9H_{10}O_2$ [140-11-4]	9.0×10^{-1}		HSDB (2015)	V	
2-ethylhexyl ethanoate $C_{10}H_{20}O_2$ (2-ethylhexyl acetate) [103-09-3]	1.1×10^{-2} 1.1×10^{-2} 6.6×10^{-3}		Mackay et al. (2006c) Mackay et al. (1995) HSDB (2015)	V V Q	 38
ethanol, 2,2'-[1,2-ethanediylbis(oxy)]bis-, diacetate $C_{10}H_{18}O_6$ (triethylene glycol, diacetate) [111-21-7]	3.7×10^{7}		HSDB (2015)	Q	38
1-methoxy-2-propyl ethanoate $C_6H_{12}O_3$ [108-65-6]	9.9×10^{-1}		Hilal et al. (2008)	Q	
2-ethoxyethyl ethanoate $C_6H_{12}O_3$ [111-15-9]	1.5 1.9		Johanson and Dynésius (1988) Hilal et al. (2008)	M Q	19
2-butoxyethyl ethanoate $C_8H_{16}O_3$ (butyl cellosolve acetate) [112-07-2]	1.8 1.3	25000	Kim et al. (2000) Hilal et al. (2008)	M Q	
2-(2-butoxyethoxy)-ethanol, ethanoate $C_{10}H_{20}O_4$ [124-17-4]	2.8×10^{1} 4.1×10^{1}		HSDB (2015) Hilal et al. (2008)	V Q	
1,2-ethanediol, diethanoate $C_6H_{10}O_4$ [111-55-7]	1.2×10^{2} 1.3×10^{1}		HSDB (2015) Hilal et al. (2008)	V Q	
geranyl acetate $C_{12}H_{20}O_2$ [105-87-3]	4.1×10^{-3}		HSDB (2015)	Q	38
linalyl acetate $C_{12}H_{20}O_2$ [115-95-7]	5.8×10^{-3}		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
cyclohexanol, 5-methyl-2-(1-methylethyl)-, acetate $C_{12}H_{22}O_2$ (menthyl acetate) [16409-45-3]	1.2×10^{-2}		HSDB (2015)	Q	38
methyl propanoate $C_2H_5COOCH_3$ (methyl propionate) [554-12-1]	5.7×10^{-2}		Buttery et al. (1969)	M	
	6.1×10^{-2}		Mackay et al. (2006c)	V	
	6.1×10^{-2}		Mackay et al. (1995)	V	
	6.1×10^{-2}		Hine and Mookerjee (1975)	V	
	5.4×10^{-2}	5400	Bagno et al. (1991)	T	196
	3.9×10^{-2}		Hilal et al. (2008)	Q	
	4.0×10^{-2}		Nirmalakhandan and Speece (1988a)	Q	
	5.8×10^{-2}	5000	Betterton (1992)	?	207
	5.7×10^{-2}		Abraham et al. (1990)	?	
methyl 2-hydroxypropanoate $C_4H_8O_3$ (methyl lactate) [547-64-8]	1.2×10^{3}		HSDB (2015)	Q	38
ethyl propanoate $C_2H_5COOC_2H_5$ (ethyl propionate) [105-37-3]	4.1×10^{-2}	5900	Fenclová et al. (2014)	M	
	3.9×10^{-2}		HSDB (2015)	V	
	3.8×10^{-2}		Mackay et al. (2006c)	V	
	3.8×10^{-2}		Mackay et al. (1995)	V	
	3.7×10^{-2}		Abraham (1984)	V	
	4.5×10^{-2}		Hine and Mookerjee (1975)	V	
	2.6×10^{-2}		Hilal et al. (2008)	Q	
	3.5×10^{-2}		Nirmalakhandan and Speece (1988a)	Q	
	3.8×10^{-2}		Abraham et al. (1990)	?	
propyl propanoate $C_2H_5COOC_3H_7$ (propyl propionate) [106-36-5]	2.5×10^{-2}		Abraham (1984)	V	
	2.5×10^{-2}		Hine and Mookerjee (1975)	V	
	2.0×10^{-2}		Hilal et al. (2008)	Q	
	2.8×10^{-2}		Nirmalakhandan and Speece (1988a)	Q	
	2.5×10^{-2}		Abraham et al. (1990)	?	
isopropyl propanoate $C_2H_5COOC_3H_7$ (isopropyl propionate) [637-78-5]	1.7×10^{-2}		Meylan and Howard (1991)	V	
	1.7×10^{-2}		Hine and Mookerjee (1975)	V	
	1.7×10^{-2}		Hilal et al. (2008)	Q	
	2.4×10^{-2}		Meylan and Howard (1991)	Q	
	2.5×10^{-2}		Nirmalakhandan and Speece (1988a)	Q	
	1.7×10^{-2}		Abraham et al. (1990)	?	
(2-methylpropyl)-propanoate $C_7H_{14}O_2$ [540-42-1]	1.8×10^{-2}		Hilal et al. (2008)	Q	
		5900	Kühne et al. (2005)	Q	
	1.9×10^{-2}		Nirmalakhandan et al. (1997)	Q	
		7300	Kühne et al. (2005)	?	
pentyl propanoate $C_2H_5COOC_5H_{11}$ (amyl propionate) [624-54-4]	1.4×10^{-2}		Abraham (1984)	V	
	1.2×10^{-2}		Hine and Mookerjee (1975)	V	
	1.2×10^{-2}		Hilal et al. (2008)	Q	
	2.2×10^{-2}		Nirmalakhandan et al. (1997)	Q	
	1.8×10^{-2}		Nirmalakhandan and Speece (1988a)	Q	
	1.4×10^{-2}		Abraham et al. (1990)	?	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
propanoic acid, 2-hydroxy-, ethyl ester $C_5H_{10}O_3$ (ethyl lactate) [97-64-3]	1.7×10^{1}		HSDB (2015)	V	
propanoic acid, 2-phenylethyl ester $C_{11}H_{14}O_2$ [122-70-3]	3.9×10^{-1}		HSDB (2015)	Q	38
methyl butanoate $C_3H_7COOCH_3$ (methyl butyrate) [623-42-7]	3.7×10^{-2}		Aprea et al. (2007)	M	
	4.8×10^{-2}		Buttery et al. (1969)	M	
	3.7×10^{-2}		Amoore and Buttery (1978)	V	
		5800	Della Gatta et al. (1981)	T	100
	2.8×10^{-2}		Hilal et al. (2008)	Q	
	3.2×10^{-2}		Nirmalakhandan and Speece (1988a)	Q	
	4.8×10^{-2}		Abraham et al. (1990)	?	
ethyl butanoate $C_3H_7COOC_2H_5$ (ethyl butyrate) [105-54-4]	2.9×10^{-2}	6400	Fenclová et al. (2014)	M	
	2.4×10^{-2}		Aprea et al. (2007)	M	
	2.5×10^{-2}		HSDB (2015)	V	
	2.4×10^{-2}		Mackay et al. (2006c)	V	
	2.4×10^{-2}		Mackay et al. (1995)	V	
	2.8×10^{-2}		Abraham (1984)	V	
	2.7×10^{-2}		Hine and Mookerjee (1975)	V	
	2.4×10^{-2}		Savary et al. (2014)	Q	
	2.0×10^{-2}		Hilal et al. (2008)	Q	
	2.8×10^{-2}		Nirmalakhandan and Speece (1988a)	Q	
	2.7×10^{-2}		Abraham et al. (1990)	?	
propyl butanoate $C_3H_7COOC_3H_7$ (propyl butyrate) [105-66-8]	1.6×10^{-2}		Meylan and Howard (1991)	V	
	1.9×10^{-2}		Hine and Mookerjee (1975)	V	
	1.4×10^{-2}		Hilal et al. (2008)	Q	
	1.8×10^{-2}		Meylan and Howard (1991)	Q	
	2.2×10^{-2}		Nirmalakhandan and Speece (1988a)	Q	
	1.9×10^{-2}		Abraham et al. (1990)	?	
butanoic acid, 2-methylpropyl ester $C_8H_{16}O_2$ [539-90-2]	1.3×10^{-2}		Hilal et al. (2008)	Q	
(2-methylpropyl)-2-methylpropanoate $C_8H_{16}O_2$ (isobutyl isobutyrate) [97-85-8]	1.0×10^{-2}		Amoore and Buttery (1978)	M	
	7.2×10^{-3}		Amoore and Buttery (1978)	V	
	1.2×10^{-2}		Hilal et al. (2008)	Q	
	1.3×10^{-2}		Nirmalakhandan et al. (1997)	Q	
	7.0×10^{-3}		Abraham et al. (1990)	?	
2-methylpropanoic acid, methyl ester $C_5H_{10}O_2$ (methyl isobutyrate) [547-63-7]	3.3×10^{-2}	5700	Bagno et al. (1991)	T	196
		5700	Della Gatta et al. (1981)	T	100
2-methylpropanoic acid, ethyl ester $C_6H_{12}O_2$ [97-62-1]	2.0×10^{-2}		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
cyclohexyl butanoate		6500	Kühne et al. (2005)	Q	
$C_{10}H_{18}O_2$		5600	Kühne et al. (2005)	?	
(cyclohexyl butyrate)					
[1551-44-6]					
3-oxobutanoic acid, methyl ester	3.7×10^{1}		HSDB (2015)	V	
$C_5H_8O_3$	1.7×10^{1}		Hilal et al. (2008)	Q	
[105-45-3]					
3-oxobutanoic acid, ethyl ester	1.1×10^{1}		Hilal et al. (2008)	Q	
$C_6H_{10}O_3$					
[141-97-9]					
methyl pentanoate	3.1×10^{-2}		Buttery et al. (1969)	M	
$C_4H_9COOCH_3$		6200	Della Gatta et al. (1981)	T	100
[624-24-8]	2.2×10^{-2}		Hilal et al. (2008)	Q	
	2.5×10^{-2}		Nirmalakhandan and Speece (1988a)	Q	
	3.1×10^{-2}		Abraham et al. (1990)	?	
ethyl pentanoate	2.8×10^{-2}		Meylan and Howard (1991)	V	
$C_4H_9COOC_2H_5$	2.8×10^{-2}		Abraham (1984)	V	
[539-82-2]	2.9×10^{-2}		Hine and Mookerjee (1975)	V	
	1.5×10^{-2}		Hilal et al. (2008)	Q	
	1.8×10^{-2}		Meylan and Howard (1991)	Q	
	2.2×10^{-2}		Nirmalakhandan and Speece (1988a)	Q	
	2.7×10^{-2}		Abraham et al. (1990)	?	
2-methylbutanoic acid, ethyl ester	8.9×10^{-3}		Pollien et al. (2003)	M	
$C_7H_{14}O_2$	2.7×10^{-2}		Roberts and Pollien (1997)	M	
[7452-79-1]					
3-methylbutanoic acid, ethyl ester	1.6×10^{-2}		Hilal et al. (2008)	Q	
$C_7H_{14}O_2$					
[108-64-5]					
2,2-dimethylpropanoic acid, methyl ester	2.3×10^{-2}	6000	Bagno et al. (1991)	T	196
$C_6H_{12}O_2$		6000	Della Gatta et al. (1981)	T	100
(methyl pivalate)	1.7×10^{-2}		Hilal et al. (2008)	Q	
[598-98-1]	1.8×10^{-2}		Nirmalakhandan et al. (1997)	Q	
methyl hexanoate	1.9×10^{-2}		Aprea et al. (2007)	M	
$C_5H_{11}COOCH_3$	2.7×10^{-2}		Buttery et al. (1969)	M	
[106-70-7]	1.8×10^{-2}		Hilal et al. (2008)	Q	
	2.0×10^{-2}		Nirmalakhandan and Speece (1988a)	Q	
	2.7×10^{-2}		Abraham et al. (1990)	?	
ethyl hexanoate	1.4×10^{-2}		Aprea et al. (2007)	M	
$C_5H_{11}COOC_2H_5$	1.8×10^{-2}		Abraham (1984)	V	
[123-66-0]	1.4×10^{-2}		Savary et al. (2014)	Q	
	1.1×10^{-2}		Hilal et al. (2008)	Q	
	1.7×10^{-2}		Nirmalakhandan et al. (1997)	Q	
	1.8×10^{-2}		Abraham et al. (1990)	?	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2-ethylbutanoic acid, 1,2-ethanediylbis(oxy-2,1-ethanediyl) ester $C_{18}H_{34}O_6$ [95-08-9]	9.9×10^{5}		HSDB (2015)	Q	38
ethyl heptanoate $C_6H_{13}COOC_2H_5$ [106-30-9]	2.0×10^{-2}		Meylan and Howard (1991)	V	
	2.0×10^{-2}		Abraham (1984)	V	
	2.0×10^{-2}		Hine and Mookerjee (1975)	V	
	9.2×10^{-3}		Hilal et al. (2008)	Q	
	1.0×10^{-2}		Meylan and Howard (1991)	Q	
	2.1×10^{-2}		Nirmalakhandan and Speece (1988a)	Q	
	2.0×10^{-2}		Abraham et al. (1990)	?	
methyl octanoate $C_6H_{13}COOCH_3$ [111-11-5]	9.9×10^{-3}		Aprea et al. (2007)	M	
	1.3×10^{-2}		Buttery et al. (1969)	M	
	1.2×10^{-2}		Hilal et al. (2008)	Q	
	4.7×10^{-2}		Nirmalakhandan et al. (1997)	Q	
	1.1×10^{-2}		Nirmalakhandan and Speece (1988a)	Q	
ethyl octanoate $C_7H_{15}COOC_2H_5$ [106-32-1]	1.1×10^{-2}		Aprea et al. (2007)	M	
	1.2×10^{-2}		Abraham (1984)	V	
	7.8×10^{-3}		Savary et al. (2014)	Q	
octadecanoic acid, 2-methylpropyl ester $C_{22}H_{44}O_2$ (isobutyl stearate) [646-13-9]	2.6×10^{-4}		HSDB (2015)	Q	38
octadecanoic acid, butyl ester $C_{22}H_{44}O_2$ [123-95-5]	2.6×10^{-4}		HSDB (2015)	Q	38
methyl nonanoate $C_{10}H_{20}O_2$ [1731-84-6]	7.0×10^{-3}		Abraham (1984)	V	
ethyl nonanoate $C_8H_{17}COOC_2H_5$ [123-29-5]	1.3×10^{-2}		Abraham (1984)	V	
nonanedioic acid, bis(2-ethylhexyl) ester $C_{25}H_{48}O_4$ (di-2-ethylhexyl azelate) [103-24-2]	8.2×10^{-2}		HSDB (2015)	Q	38
methyl decanoate $C_{11}H_{22}O_2$ (methyl caprate) [110-42-9]	1.1×10^{-2}		Aprea et al. (2007)	M	
	1.4×10^{-2}		Krop et al. (1997)	V	
	3.2×10^{-3}		Abraham (1984)	V	
	5.8×10^{-3}		HSDB (2015)	Q	38
	7.7×10^{-3}		Hilal et al. (2008)	Q	
ethyl decanoate $C_9H_{19}COOC_2H_5$ [110-38-3]	1.4×10^{-2}		Aprea et al. (2007)	M	
	1.7×10^{-2}		Abraham (1984)	V	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
methyl dodecanoate $C_{13}H_{26}O_2$ (methyl laurate) [111-82-0]	8.3×10^{-3} 3.3×10^{-3} 4.8×10^{-3}		Krop et al. (1997) HSDB (2015) Hilal et al. (2008)	V Q Q	 38
ethyl dodecanoate $C_{14}H_{28}O_2$ (ethyl laurate) [106-33-2]	7.7×10^{-3} 3.1×10^{-3}		Krop et al. (1997) Hilal et al. (2008)	V Q	
propyl dodecanoate $C_{15}H_{30}O_2$ (propyl laurate) [3681-78-5]	7.7×10^{-3} 2.1×10^{-3}		Krop et al. (1997) Hilal et al. (2008)	V Q	
butyl dodecanoate $C_{16}H_{32}O_2$ (butyl laurate) [106-18-3]	7.1×10^{-3} 1.5×10^{-3}		Krop et al. (1997) Hilal et al. (2008)	V Q	
2-ethylhexyl dodecanoate $C_{20}H_{40}O_2$ (2-ethylhexyl laurate) [20292-08-4]	3.0×10^{-3} 8.6×10^{-4}		Krop et al. (1997) Hilal et al. (2008)	V Q	
methyl tetradecanoate $C_{15}H_{30}O_2$ (methyl myristate) [124-10-7]	5.0×10^{-3} 1.9×10^{-3} 3.1×10^{-3}		Krop et al. (1997) HSDB (2015) Hilal et al. (2008)	V Q Q	 38
methyl hexadecanoate $C_{17}H_{34}O_2$ (methyl palmitate) [112-39-0]	2.9×10^{-3} 1.1×10^{-3} 1.8×10^{-3}		Krop et al. (1997) HSDB (2015) Hilal et al. (2008)	V Q Q	 38
isopropyl palmitate $C_{19}H_{38}O_2$ [142-91-6]	2.1×10^{-4}		HSDB (2015)	Q	182
ascorbic palmitate $C_{22}H_{38}O_7$ [137-66-6]	7.0×10^{1}		HSDB (2015)	Q	38
methyl octadecanoate $C_{19}H_{38}O_2$ (methyl stearate) [112-61-8]	1.7×10^{-3} 6.2×10^{-4} 1.1×10^{-3}		Krop et al. (1997) HSDB (2015) Hilal et al. (2008)	V Q Q	 38
methyl eicosanoate $C_{21}H_{42}O_2$ (methyl arachidate) [1120-28-1]	1.0×10^{-3}		Krop et al. (1997)	V	
methyl docosanoate $C_{23}H_{46}O_2$ (methyl behenate) [929-77-1]	5.9×10^{-4}		Krop et al. (1997)	V	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
cyclopropanecarboxylic acid, methyl ester	4.1×10^{-1}	6100	Bagno et al. (1991)	T	196
$C_5H_8O_2$ [2868-37-3]	1.1×10^{-1}		Hilal et al. (2008)	Q	
cyclohexanecarboxylic acid, methyl ester $C_6H_{11}COOCH_3$ [4630-82-4]	1.1×10^{-1}	7200	Bagno et al. (1991)	T	196
(*Z*,*Z*,*Z*)-9,12,15-octadecatrienoic acid, methyl ester	2.8×10^{-1}		Krop et al. (1997)	V	
$C_{19}H_{32}O_2$ (methyl linolenate) [301-00-8]	7.2×10^{-3}		Hilal et al. (2008)	Q	
(*Z*,*Z*)-9,12-octadecadienoic acid, methyl ester	6.2×10^{-2}		Krop et al. (1997)	V	
$C_{19}H_{34}O_2$ (methyl linolate) [112-63-0]	4.8×10^{-3}		Hilal et al. (2008)	Q	
(*Z*)-9-octadecenoic acid, methyl ester	1.3×10^{-2}		Krop et al. (1997)	V	
$C_{19}H_{36}O_2$	7.0×10^{-4}		HSDB (2015)	Q	38
(methyl oleate) [112-62-9]	2.5×10^{-3}		Hilal et al. (2008)	Q	
(*Z*)-13-docosenoic acid, methyl ester	5.3×10^{-3}		Krop et al. (1997)	V	
$C_{23}H_{44}O_2$ (methyl erucate) [1120-34-9]	8.2×10^{-4}		Hilal et al. (2008)	Q	
oxacyclohexadecan-2-one	4.0×10^{-3}		Amoore and Buttery (1978)	M	
$C_{15}H_{28}O_2$ (pentadecalactone) [106-02-5]	7.6×10^{-2}		Amoore and Buttery (1978)	V	
2-*tert*-butylcyclohexyl acetate	9.9×10^{-3}		Zhang et al. (2010)	Q	107, 108
$C_{12}H_{22}O_2$	3.8×10^{-2}		Zhang et al. (2010)	Q	107, 109
[88-41-5]	5.3×10^{-1}		Zhang et al. (2010)	Q	107, 110
	7.0×10^{-3}		Zhang et al. (2010)	Q	107, 111
2-ethyl-3-oxo-butanoic acid, ethyl ester $C_8H_{14}O_3$ [607-97-6]	3.4		Hilal et al. (2008)	Q	
carbonic acid, diethyl ester	1.1×10^{-1}		HSDB (2015)	V	
$C_5H_{10}O_3$ [105-58-8]	6.9×10^{-2}		Hilal et al. (2008)	Q	
2-hydroxypropanoic acid, butyl ester	4.9		HSDB (2015)	V	
$C_7H_{14}O_3$ [138-22-7]	6.4×10^{1}		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
methyl propenoate $C_4H_6O_2$ (methyl acrylate) [96-33-3]	4.9×10^{-2} 5.2×10^{-2} 5.2×10^{-2} 5.4×10^{-2}		HSDB (2015) Mackay et al. (2006c) Mackay et al. (1995) Hilal et al. (2008)	V V V Q	
ethyl propenoate $C_5H_8O_2$ (ethyl acrylate) [140-88-5]	2.9×10^{-2} 2.9×10^{-2} 2.9×10^{-2} 3.5×10^{-2}		HSDB (2015) Mackay et al. (2006c) Mackay et al. (1995) Hilal et al. (2008)	V V V Q	
2-propenoic acid, butyl ester $C_7H_{12}O_2$ [141-32-2]	2.1×10^{-2} 2.0×10^{-2}		HSDB (2015) Hilal et al. (2008)	V Q	
2-propenoic acid, 2-methylpropyl ester $C_7H_{12}O_2$ [106-63-8]	1.6×10^{-2} 2.4×10^{-2}		HSDB (2015) Hilal et al. (2008)	V Q	
2-propenoic acid, 2-ethylhexyl ester $C_{11}H_{20}O_2$ [103-11-7]	2.3×10^{-2} 1.2×10^{-2}		HSDB (2015) Hilal et al. (2008)	V Q	
2-propenoic acid, 2-hydroxyethyl ester $C_5H_8O_3$ (2-hydroxyethyl acrylate) [818-61-1]	1.2×10^{3}		HSDB (2015)	V	
2-methyl-2-propenoic acid, ethyl ester $C_6H_{10}O_2$ [97-63-2]	1.7×10^{-2} 1.6×10^{-2} 2.9×10^{-2}		HSDB (2015) Hilal et al. (2008) Hilal et al. (2008)	V C Q	
2-methyl-2-propenoic acid, 2-propenyl ester $C_7H_{10}O_2$ (allyl methacrylate) [96-05-9]	2.4×10^{-2}		HSDB (2015)	Q	38
2-methyl-2-propenoic acid, oxiranylmethyl ester $C_7H_{10}O_3$ (glycidyl methacrylate) [106-91-2]	3.2×10^{1}		HSDB (2015)	Q	38
2-methyl-2-propenoic acid, propyl ester $C_7H_{12}O_2$ (propyl methacrylate) [2210-28-8]	1.8×10^{-2}		HSDB (2015)	Q	38
2-methyl-2-propenoic acid, butyl ester $C_8H_{14}O_2$ (butyl methacrylate) [97-88-1]	2.0×10^{-2} 1.8×10^{-2}		HSDB (2015) Hilal et al. (2008)	V Q	
2-methyl-2-propenoic acid, 2-methylpropyl ester $C_8H_{14}O_2$ [97-86-9]	1.9×10^{-2} 2.1×10^{-2}		HSDB (2015) Hilal et al. (2008)	V Q	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2-methyl-2-propenoic acid, 1,2-ethanediylbis(oxy-2,1-ethanediyl) ester $C_{14}H_{22}O_6$ [109-16-0]	5.8×10^{6}		HSDB (2015)	Q	38
methyl methacrylate $C_5H_8O_2$ [80-62-6]	4.3×10^{-2}	7700	Hiatt (2013)	M	
	3.1×10^{-2}		HSDB (2015)	V	
	3.1×10^{-2}		Mackay et al. (2006c)	V	
	3.0×10^{-2}		Lide and Frederikse (1995)	V	
	3.1×10^{-2}		Mackay et al. (1995)	V	
	4.4×10^{-2}		Hilal et al. (2008)	Q	
(E)-3-hexenyl ethanoate $C_8H_{14}O_2$ [3681-82-1]	3.3×10^{-2}		Karl et al. (2003)	M	
(Z)-3-hexenyl ethanoate $C_8H_{14}O_2$ [3681-71-8]	3.1×10^{-2}		Karl et al. (2003)	M	
ethenyl ethanoate $CH_3COOCHCH_2$ (vinyl acetate) [108-05-4]	1.9×10^{-2}		HSDB (2015)	V	
	1.6×10^{-2}		Mackay et al. (2006c)	V	
	2.0×10^{-2}		Lide and Frederikse (1995)	V	
	1.6×10^{-2}		Mackay et al. (1995)	V	
	1.7×10^{-2}		Goldstein (1982)	X	181
	1.7×10^{-2}	2600	Goldstein (1982)	X	116
	6.9×10^{-2}		Hilal et al. (2008)	Q	
3-(4-methoxyphenyl)-2-propenoic acid, 2-ethylhexyl ester $C_{18}H_{26}O_3$ (octinoxate) [5466-77-3]	1.2		HSDB (2015)	Q	182
methyl benzoate $C_6H_5COOCH_3$ [93-58-3]	3.0×10^{-1}		HSDB (2015)	V	
	3.0×10^{-1}		Mackay et al. (2006c)	V	
	3.0×10^{-1}		Mackay et al. (1995)	V	
	2.8×10^{-1}		Meylan and Howard (1991)	V	
	5.6×10^{-1}		Hine and Mookerjee (1975)	V	
	3.1×10^{-1}		Abraham et al. (1994a)	R	
	5.8×10^{-1}	6300	Bagno et al. (1991)	T	196
	2.9×10^{-1}		Zhang et al. (2010)	Q	107, 108
	3.6×10^{-1}		Zhang et al. (2010)	Q	107, 109
	9.5×10^{-1}		Zhang et al. (2010)	Q	107, 110
	6.1×10^{-1}		Zhang et al. (2010)	Q	107, 111
	2.9×10^{-1}		Hilal et al. (2008)	Q	
		5100	Kühne et al. (2005)	Q	
	2.8×10^{-1}		Meylan and Howard (1991)	Q	
	2.7×10^{-1}		Nirmalakhandan and Speece (1988a)	Q	
		3500	Kühne et al. (2005)	?	
	5.6×10^{-1}		Abraham et al. (1990)	?	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
ethyl benzoate	9.7×10^{-2}		Mackay et al. (2006c)	V	
$C_6H_5COOC_2H_5$	9.7×10^{-2}		Mackay et al. (1995)	V	
[93-89-0]	1.9×10^{-1}		Abraham et al. (1994a)	R	
	2.1×10^{-1}		Zhang et al. (2010)	Q	107, 108
	2.1×10^{-1}		Zhang et al. (2010)	Q	107, 109
	5.1×10^{-1}		Zhang et al. (2010)	Q	107, 110
	4.8×10^{-1}		Zhang et al. (2010)	Q	107, 111
	1.9×10^{-1}		Hilal et al. (2008)	Q	
	2.2×10^{-1}		Nirmalakhandan et al. (1997)	Q	
	1.9×10^{-1}		Abraham et al. (1990)	?	
2-hydroxybenzoic acid methyl ester	1.1×10^{1}		HSDB (2015)	V	
$C_8H_8O_3$	1.8×10^{1}		Hilal et al. (2008)	Q	
[119-36-8]					
benzoic acid, 4-methyl-, methyl ester	2.6×10^{-1}		Zhang et al. (2010)	Q	107, 108
$C_9H_{10}O_2$	3.9×10^{-1}		Zhang et al. (2010)	Q	107, 109
[99-75-2]	1.7		Zhang et al. (2010)	Q	107, 110
	3.5×10^{-1}		Zhang et al. (2010)	Q	107, 111
1,4-benzenedicarboxylic acid, dimethyl ester	7.6×10^{-2}		HSDB (2015)	V	
$C_{10}H_{10}O_4$	4.4×10^{1}		Zhang et al. (2010)	Q	107, 108
[120-61-6]	1.3×10^{2}		Zhang et al. (2010)	Q	107, 109
	5.3×10^{1}		Zhang et al. (2010)	Q	107, 110
	9.2×10^{1}		Zhang et al. (2010)	Q	107, 111
butyl benzoate	1.2×10^{-1}		Zhang et al. (2010)	Q	107, 108
$C_{11}H_{14}O_2$	1.0×10^{-1}		Zhang et al. (2010)	Q	107, 109
[136-60-7]	5.2×10^{-1}		Zhang et al. (2010)	Q	107, 110
	3.2×10^{-1}		Zhang et al. (2010)	Q	107, 111
diphenyl carbonate	1.2×10^{-1}		HSDB (2015)	Q	38
$C_{13}H_{10}O_3$	1.2×10^{-1}		Zhang et al. (2010)	Q	107, 108
[102-09-0]	1.6×10^{1}		Zhang et al. (2010)	Q	107, 109
	9.5×10^{-1}		Zhang et al. (2010)	Q	107, 110
	1.2×10^{2}		Zhang et al. (2010)	Q	107, 111
benzyl benzoate	1.8		Mackay et al. (2006c)	V	
$C_{14}H_{12}O_2$	1.8		Mackay et al. (1995)	V	
[120-51-4]					
dimethyl phthalate	4.9×10^{1}		HSDB (2015)	V	
$C_{10}H_{10}O_4$	9.3×10^{1}		Mackay et al. (2006c)	V	
[131-11-3]	2.0×10^{1}		Saçan et al. (2005)	V	
	1.0×10^{2}		Cousins and Mackay (2000)	V	
	8.1×10^{1}		Staples et al. (1997)	V	
	9.1×10^{1}		Lide and Frederikse (1995)	V	
	9.1×10^{1}		Mackay et al. (1995)	V	
	5.0×10^{1}		Hwang et al. (1992)	V	
	9.0		Wolfe et al. (1980)	V	
	2.9×10^{1}		Goldstein (1982)	X	181
	3.0×10^{1}	5700	Goldstein (1982)	X	116
	2.3×10^{1}		McCarty (1980)	X	145
	5.0×10^{1}		Ryan et al. (1988)	C	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	1.7×10^{2}		Hilal et al. (2008)	Q	
	9.6		Saçan et al. (2005)	Q	
1,4-cyclohexanedicarboxylic acid, dimethyl ester $C_{10}H_{16}O_4$ (dimethyl hexahydroterephthalate) [94-60-0]	1.0×10^{2}		HSDB (2015)	V	
1,3-benzenedicarboxylic acid, dimethyl ester $C_{10}H_{10}O_4$ (dimethyl isophthalate) [1459-93-4]	1.6×10^{2}		HSDB (2015)	Q	38
diethyl phthalate $C_{12}H_{14}O_4$ [84-66-2]	1.6×10^{1}		HSDB (2015)	V	
	2.2×10^{1}		Mackay et al. (2006c)	V	
	4.1×10^{1}		Cousins and Mackay (2000)	V	
	3.7×10^{1}		Staples et al. (1997)	V	
	2.1×10^{1}		Lide and Frederikse (1995)	V	
	1.0×10^{2}		Mackay et al. (1995)	V	
	4.9×10^{2}		Wolfe et al. (1980)	V	
	1.2×10^{1}		Goldstein (1982)	X	181
	1.2×10^{1}	5600	Goldstein (1982)	X	116
	2.1×10^{-1}		Ryan et al. (1988)	C	
	5.8×10^{-1}		Petrasek et al. (1983)	C	
	2.5×10^{1}		Zhang et al. (2010)	Q	107, 108
	1.5×10^{2}		Zhang et al. (2010)	Q	107, 109
	2.7×10^{2}		Zhang et al. (2010)	Q	107, 110
	5.6×10^{1}		Zhang et al. (2010)	Q	107, 111
	7.7×10^{1}		Hilal et al. (2008)	Q	
		12000	Kühne et al. (2005)	Q	
	5.8		Saçan et al. (2005)	Q	
		12000	Kühne et al. (2005)	?	
dipropyl phthalate $C_{14}H_{18}O_4$ [131-16-8]	1.8×10^{1}		Cousins and Mackay (2000)	V	208
	3.3		Cousins and Mackay (2000)	V	208
	3.2×10^{1}		Staples et al. (1997)	V	
	2.4×10^{1}		Saçan et al. (2005)	Q	
diallyl phthalate $C_{14}H_{14}O_4$ [131-17-9]	3.5×10^{1}		Saçan et al. (2005)	V	
	2.3×10^{1}		Cousins and Mackay (2000)	V	
	3.5×10^{1}		Staples et al. (1997)	V	
	2.5×10^{1}		HSDB (2015)	Q	38
	1.7×10^{1}		Saçan et al. (2005)	Q	
bis(2-methoxyethyl) phthalate $C_{14}H_{18}O_5$ [117-82-8]	2.3×10^{1}		Fishbein and Albro (1972)	V	9
	3.5×10^{7}		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
dibutyl phthalate	9.3		Lee et al. (2012)	M	
$C_{16}H_{22}O_4$	5.5		Atlas et al. (1983)	M	126
[84-74-2]	2.2×10^{1}		Mackay et al. (2006c)	V	
	2.7×10^{1}		Saçan et al. (2005)	V	
	7.5		Cousins and Mackay (2000)	V	
	1.1×10^{1}		Staples et al. (1997)	V	
	2.2×10^{1}		Lide and Frederikse (1995)	V	
	2.0×10^{1}		Mackay et al. (1995)	V	
	2.6×10^{2}		Hwang et al. (1992)	V	
	7.6		Wolfe et al. (1980)	V	
	1.6×10^{-1}		McCarty (1980)	X	145
	3.4×10^{1}		Ryan et al. (1988)	C	
	2.9×10^{1}		Hilal et al. (2008)	Q	
		14000	Kühne et al. (2005)	Q	
	3.7×10^{1}		Saçan et al. (2005)	Q	
		13000	Kühne et al. (2005)	?	
diisobutyl phthalate	3.5		HSDB (2015)	V	
$C_{16}H_{22}O_4$	7.5		Cousins and Mackay (2000)	V	
[84-69-5]	5.4×10^{1}		Staples et al. (1997)	V	
	3.1×10^{1}		Saçan et al. (2005)	Q	
1,2-benzenedicarboxylic acid, butyl cyclohexyl ester $C_{18}H_{24}O_4$ (butyl cyclohexyl phthalate) [84-64-0]	1.0×10^{1}		HSDB (2015)	Q	38
butyl glycolyl butyl phthalate $C_{18}H_{24}O_6$ [85-70-1]	4.7×10^{2}		HSDB (2015)	Q	38
diamyl phthalate $C_{18}H_{26}O_4$ [131-18-0]	1.1×10^{1}		HSDB (2015)	Q	38
butyl benzyl phthalate	1.0×10^{2}		Lee et al. (2012)	M	
$C_{19}H_{20}O_4$	7.6		HSDB (2015)	V	
[85-68-7]	7.5		Mackay et al. (2006c)	V	
	1.9×10^{1}		Saçan et al. (2005)	V	
	4.9		Cousins and Mackay (2000)	V	
	1.3×10^{1}		Staples et al. (1997)	V	
	7.8		Mackay et al. (1995)	V	
	9.6		Ryan et al. (1988)	C	
	3.2×10^{1}		Saçan et al. (2005)	Q	
	>9.9		Petrasek et al. (1983)	E	
dihexyl phthalate	3.8×10^{-1}		HSDB (2015)	V	
$C_{20}H_{30}O_4$	1.4		Cousins and Mackay (2000)	V	
[84-75-3]	2.2×10^{-1}		Staples et al. (1997)	V	
	1.6×10^{1}		Saçan et al. (2005)	Q	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
butyl 2-ethylhexyl phthalate	2.1		Cousins and Mackay (2000)	V	
$C_{20}H_{30}O_4$	2.5×10^{1}		Staples et al. (1997)	V	
[85-69-8]	4.7		HSDB (2015)	Q	38
	6.9×10^{1}		Saçan et al. (2005)	Q	
diphenyl terephthalate	3.2×10^{2}		Zhang et al. (2010)	Q	107, 108
$C_{20}H_{14}O_4$	4.3×10^{4}		Zhang et al. (2010)	Q	107, 109
[1539-04-4]	2.7×10^{4}		Zhang et al. (2010)	Q	107, 110
	7.7×10^{4}		Zhang et al. (2010)	Q	107, 111
dicyclohexyl phthalate	9.9×10^{1}		HSDB (2015)	V	
$C_{20}H_{26}O_4$					
[84-61-7]					
bis(2-butoxyethyl) phthalate	4.9×10^{6}		HSDB (2015)	Q	38
$C_{20}H_{30}O_6$					
[117-83-9]					
diheptyl phthalate	5.9×10^{-1}		Cousins and Mackay (2000)	V	
$C_{22}H_{34}O_4$	2.8		HSDB (2015)	Q	38
[3648-21-3]	8.9×10^{-1}		Saçan et al. (2005)	Q	
dioctyl phthalate	3.8		HSDB (2015)	V	
$C_{24}H_{38}O_4$	9.6×10^{-2}		Mackay et al. (2006c)	V	
[117-84-0]	2.5×10^{-1}		Cousins and Mackay (2000)	V	
	9.6×10^{-2}		Staples et al. (1997)	V	
	1.8		Mackay et al. (1995)	V	
	1.8		Wolfe et al. (1980)	V	
	3.4×10^{1}		Ryan et al. (1988)	C	
	6.4		Saçan et al. (2005)	Q	
	>9.9		Petrasek et al. (1983)	E	
diisooctyl phthalate	3.2×10^{-1}		HSDB (2015)	V	
$C_{24}H_{38}O_4$	2.5×10^{-1}		Cousins and Mackay (2000)	V	
[27554-26-3]	1.5×10^{2}		Saçan et al. (2005)	Q	
decyl hexyl phthalate	1.6×10^{2}		Saçan et al. (2005)	Q	
$C_{24}H_{38}O_4$					
[25724-58-7]					
bis(2-ethylhexyl)-phthalate	3.7×10^{1}		HSDB (2015)	V	
$C_{24}H_{38}O_4$	5.8×10^{-1}		Mackay et al. (2006c)	V	
(DEHP)	1.4×10^{1}		Saçan et al. (2005)	V	
[117-81-7]	2.5×10^{-1}		Cousins and Mackay (2000)	V	
	5.8×10^{-1}		Staples et al. (1997)	V	
	3.7×10^{1}		Mackay et al. (1995)	V	
	6.7×10^{-1}		Meylan and Howard (1991)	V	
	5.4×10^{-2}		Riederer (1990)	V	
	2.2×10^{1}		Wolfe et al. (1980)	V	
	3.4×10^{1}		Ryan et al. (1988)	C	
	8.2×10^{1}		Petrasek et al. (1983)	C	
	2.5×10^{1}		Saçan et al. (2005)	Q	
	8.4×10^{-1}		Meylan and Howard (1991)	Q	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
bis(2-ethylhexyl) terephthalate $C_{24}H_{38}O_4$ [6422-86-2]	9.9×10^{-1}		HSDB (2015)	Q	38
dinonyl phthalate $C_{26}H_{42}O_4$ [84-76-4]	1.1×10^{-1} 7.0×10^{-1} 3.0×10^{1}		Cousins and Mackay (2000) HSDB (2015) Saçan et al. (2005)	V Q Q	 38
diisononyl phthalate $C_{26}H_{42}O_4$ [28553-12-0]	6.6 1.1×10^{-1} 3.3×10^{1}		HSDB (2015) Cousins and Mackay (2000) Saçan et al. (2005)	V V Q	
didecyl phthalate $C_{28}H_{46}O_4$ [84-77-5]	4.6×10^{-2} 3.5×10^{-1}		Cousins and Mackay (2000) HSDB (2015)	V Q	 38
diisodecyl phthalate $C_{28}H_{46}O_4$ [26761-40-0]	9.0 3.8×10^{1} 4.6×10^{-2} 2.4×10^{1}		HSDB (2015) Saçan et al. (2005) Cousins and Mackay (2000) Saçan et al. (2005)	V V V Q	
diundecyl phthalate $C_{30}H_{50}O_4$ [3648-20-2]	3.3×10^{1} 2.0×10^{-2} 1.8×10^{-1} 1.4×10^{1}		Saçan et al. (2005) Cousins and Mackay (2000) HSDB (2015) Saçan et al. (2005)	V V Q Q	 38
ditridecyl phthalate $C_{34}H_{58}O_4$ [119-06-2]	3.6×10^{-3} 4.5×10^{-2} 7.9×10^{1}		Cousins and Mackay (2000) HSDB (2015) Saçan et al. (2005)	V Q Q	 38
ethanedioic acid, dimethyl ester $C_4H_6O_4$ (dimethyl oxalate) [553-90-2]	6.9		Hilal et al. (2008)	Q	
propanedioic acid, dimethyl ester $C_5H_8O_4$ (dimethyl malonate) [108-59-8]	3.8×10^{1}	11000	Katrib et al. (2003)	M	
propanedioic acid, diethyl ester $C_7H_{12}O_4$ (diethyl malonate) [105-53-3]	3.9	 5900 6400	Hilal et al. (2008) Kühne et al. (2005) Kühne et al. (2005)	Q Q ?	
butanedioic acid, dimethyl ester $C_6H_{10}O_4$ (dimethyl succinate) [106-65-0]	3.0×10^{1} 1.5×10^{2} 	8500 7100 7000	Katrib et al. (2003) HSDB (2015) Kühne et al. (2005) Kühne et al. (2005)	M Q Q ?	 38
diethyl succinate $C_8H_{14}O_4$ [123-25-1]	4.0		Hilal et al. (2008)	Q	
(Z)-2-butenedioic acid dimethyl ester $C_6H_8O_4$ [624-48-6]	2.3×10^{1}		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
diethyl pimelate $C_{11}H_{20}O_4$ [2050-20-6]	1.5		Hilal et al. (2008)	Q	
1,3-benzenedicarboxylic acid, diethyl ester $C_{12}H_{14}O_4$ [636-53-3]	2.5×10^{1}		Zhang et al. (2010)	Q	107, 108
	1.9×10^{1}		Zhang et al. (2010)	Q	107, 109
	2.9×10^{7}		Zhang et al. (2010)	Q	107, 110
	5.6×10^{1}		Zhang et al. (2010)	Q	107, 111
2,6-naphthalenedicarboxylic acid, dimethyl ester $C_{14}H_{12}O_4$ [840-65-3]	4.5×10^{2}		Zhang et al. (2010)	Q	107, 108
	2.5×10^{3}		Zhang et al. (2010)	Q	107, 109
	2.6×10^{7}		Zhang et al. (2010)	Q	107, 110
	1.3×10^{3}		Zhang et al. (2010)	Q	107, 111
di-(2-ethylhexyl)-adipate $C_{22}H_{42}O_4$ [103-23-1]	2.3×10^{1}		Felder et al. (1986)	X	137
	4.3×10^{-1}		Hilal et al. (2008)	Q	
peroxybenzoic acid, *tert*-butyl ester $C_{11}H_{14}O_3$ [614-45-9]	4.7×10^{-2}		HSDB (2015)	Q	38
	4.7×10^{-2}		Zhang et al. (2010)	Q	107, 108
	1.8×10^{-1}		Zhang et al. (2010)	Q	107, 109
	8.2		Zhang et al. (2010)	Q	107, 110
	5.4		Zhang et al. (2010)	Q	107, 111
neodecaneperoxoic acid, 1,1-dimethylethyl ester $C_{14}H_{28}O_3$ [26748-41-4]	9.9×10^{-4}		Zhang et al. (2010)	Q	107, 108
	4.7×10^{-3}		Zhang et al. (2010)	Q	107, 109
	1.2×10^{-1}		Zhang et al. (2010)	Q	107, 110
	2.3×10^{-2}		Zhang et al. (2010)	Q	107, 111
neoheptaneperoxoic acid, 1-methyl-1-phenylethyl ester $C_{16}H_{24}O_3$ [130097-36-8]	3.8×10^{-2}		Zhang et al. (2010)	Q	107, 108
	9.0×10^{-2}		Zhang et al. (2010)	Q	107, 109
	2.5		Zhang et al. (2010)	Q	107, 110
	1.3		Zhang et al. (2010)	Q	107, 111
hydroxypropyl acrylate $C_6H_{10}O_3$ [25584-83-2]	5.8×10^{3}		HSDB (2015)	Q	38
2-hydroxyethyl methacrylate $C_6H_{10}O_3$ [868-77-9]	2.1×10^{3}		HSDB (2015)	Q	38
2-hydroxypropyl acrylate $C_6H_{10}O_3$ [999-61-1]	1.6×10^{3}		HSDB (2015)	Q	38
dimethyl fumarate $C_6H_8O_4$ [624-49-7]	1.4×10^{1}		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
hexanedioic acid, dimethyl ester $C_8H_{14}O_4$ (dimethyl adipate) [627-93-0]	1.0×10^{1}		HSDB (2015)	Q	38
methyl 4-hydroxybenzoate $C_8H_8O_3$ (methylparaben) [99-76-3]	4.5×10^{3}		HSDB (2015)	Q	38
diethyl fumarate $C_8H_{12}O_4$ [623-91-6]	4.1×10^{2}		HSDB (2015)	Q	38
diethyl adipate $C_{10}H_{18}O_4$ [141-28-6]	2.7		HSDB (2015)	V	
propyl 4-hydroxybenzoate $C_{10}H_{12}O_3$ (propylparaben) [94-13-3]	1.5×10^{3}		HSDB (2015)	Q	38
diethylene glycol diacrylate $C_{10}H_{14}O_5$ [4074-88-8]	1.0×10^{4}		HSDB (2015)	Q	38
(2,2-dimethyl-3-prop-2-enoyloxypropyl) prop-2-enoate $C_{11}H_{16}O_4$ (2,2-dimethyltrimethylene acrylate) [2223-82-7]	2.7×10^{1}		HSDB (2015)	Q	182
methyl jasmonate $C_{13}H_{20}O_3$ [1211-29-6]	7.0×10^{2}		HSDB (2015)	Q	38
cinoxate $C_{14}H_{18}O_4$ [104-28-9]	1.9×10^{3}		HSDB (2015)	Q	182
trimethylolpropane triacrylate $C_{15}H_{20}O_6$ [15625-89-5]	1.6×10^{4}		HSDB (2015)	Q	182
benzyl cinnamate $C_{16}H_{14}O_2$ [103-41-3]	3.0×10^{1}		HSDB (2015)	Q	38
2,2,4-trimethyl-1,3-pentanediol di-isobutyrate $C_{16}H_{30}O_4$ [6846-50-0]	9.0×10^{-1}		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
nonanedioic acid, dibutyl ester $C_{17}H_{32}O_4$ (dibutyl azelate) [2917-73-9]	8.2×10^{-1}		HSDB (2015)	Q	38
isopropyl myristate $C_{17}H_{34}O_2$ [110-27-0]	4.2×10^{-4}		HSDB (2015)	Q	38
decanedioic acid, dibutyl ester $C_{18}H_{34}O_4$ [109-43-3]	2.1×10^{2}		HSDB (2015)	V	
diethylene glycol dibenzoate $C_{18}H_{18}O_5$ [120-55-8]	3.3×10^{6}		HSDB (2015)	Q	38
12-hydroxy-9-octadecenoic acid, methyl ester $C_{19}H_{36}O_3$ (ricinoleic acid, methyl ester) [141-24-2]	6.7×10^{1}		HSDB (2015)	Q	38
chrysanthemumic acid 2,4-dimethylbenzyl ester $C_{19}H_{26}O_2$ (dimethrin) [70-38-2]	1.3×10^{-1}		HSDB (2015)	Q	38
tributyl acetylcitrate $C_{20}H_{34}O_8$ (acetyl tributyl citrate) [77-90-7]	2.6×10^{4}		HSDB (2015)	Q	38
hexanedioic acid, dioctyl ester $C_{22}H_{42}O_4$ (di-n-octyl adipate) [123-79-5]	2.3×10^{1}		Felder et al. (1986)	X	137
diisooctyl adipate $C_{22}H_{42}O_4$ [1330-86-5]	1.9×10^{-1}		HSDB (2015)	Q	38
hexanedioic acid, bis[2-(2-butoxyethoxy)ethyl] ester $C_{22}H_{42}O_8$ (bis(2-(2-butoxyethoxy)ethyl) adipate) [141-17-3]	3.2×10^{7}		HSDB (2015)	Q	38
1,2-benzenedicarboxylic acid, decyl octyl ester $C_{26}H_{42}O_4$ [119-07-3]	4.7×10^{-1}		HSDB (2015)	Q	38
phthalic acid, isodecyl octyl ester $C_{26}H_{42}O_4$ [1330-96-7]	4.7×10^{-1}		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
diisononyl hexahydrophthalate $C_{26}H_{48}O_4$ [166412-78-8]	1.4×10^{-1}		HSDB (2015)	Q	38
decanedioic acid, bis(2-ethylhexyl) ester $C_{26}H_{50}O_4$ (bis(2-ethylhexyl) sebacate) [122-62-3]	1.2×10^{-1}		HSDB (2015)	Q	38
glycerol tricaprylate $C_{27}H_{50}O_6$ (tricaprylin) [538-23-8]	3.9×10^{2}		HSDB (2015)	Q	38
tris(2-ethylhexyl) trimellitate $C_{33}H_{54}O_6$ [3319-31-1]	2.2×10^{1}		HSDB (2015)	Q	38
emamectin benzoate $C_{97}H_{146}O_{26}$ [119791-41-2]	5.8×10^{3}		HSDB (2015)	V	
Ethers (ROR)					
dimethyl ether CH_3OCH_3 [115-10-6]	1.7×10^{-3}		HSDB (2015)	V	
	7.6×10^{-2}		Mackay et al. (2006c)	V	
	1.3×10^{-1}		Mackay et al. (1993)	V	
	9.9×10^{-3}		Hine and Mookerjee (1975)	V	
	9.8×10^{-3}		Hine and Weimar (1965)	R	
	1.0×10^{-2}	4900	Bagno et al. (1991)	T	196
	1.8×10^{-2}		Hilal et al. (2008)	Q	
	2.2×10^{-3}		Nirmalakhandan et al. (1997)	Q	
	9.9×10^{-3}		Abraham et al. (1990)	?	
ethyl methyl ether $C_2H_5OCH_3$ [540-67-0]	1.4×10^{-2}		Bagno et al. (1991)	T	196
	1.5×10^{-2}		HSDB (2015)	Q	38
	1.5×10^{-2}		Hilal et al. (2008)	Q	
	1.9×10^{-3}		Nirmalakhandan et al. (1997)	Q	
	8.9×10^{-3}		Saxena and Hildemann (1996)	E	158
diethyl ether $C_2H_5OC_2H_5$ [60-29-7]	5.0×10^{-3}		Steward et al. (1973)	L	19
	1.1×10^{-2}	6600	Hiatt (2013)	M	
	9.5×10^{-2}		Helburn et al. (2008)	M	
	1.1×10^{-2}		Nielsen et al. (1994)	M	
	7.0×10^{-3}	3900	Lamarche and Droste (1989)	M	135
	6.3×10^{-3}		Guitart et al. (1989)	M	19
	7.8×10^{-3}		Signer et al. (1969)	M	
	1.1×10^{-2}		Mackay et al. (2006c)	V	
	1.1×10^{-2}		Mackay et al. (1993)	V	
	8.7×10^{-3}		Hwang et al. (1992)	V	
	1.1×10^{-2}		Hine and Weimar (1965)	V	
	1.1×10^{-2}		Butler and Ramchandani (1935)	V	
	6.0×10^{-3}	5700	Bagno et al. (1991)	T	196
	7.0×10^{-3}		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
		5300	Kühne et al. (2005)	Q	
	1.7×10^{-3}		Nirmalakhandan et al. (1997)	Q	
		5700	Kühne et al. (2005)	?	
	7.7×10^{-3}		Hoff et al. (1993)	?	7
	6.0×10^{-3}		Abraham et al. (1990)	?	
diethyl ether-d10 $C_2D_5OC_2D_5$ [2679-89-2]	1.3×10^{-2}	6500	Hiatt (2013)	M	
methyl propyl ether $CH_3OC_3H_7$ [557-17-5]	6.7×10^{-3}		Meylan and Howard (1991)	V	
	6.7×10^{-3}		Hine and Mookerjee (1975)	V	
	1.1×10^{-2}		Hilal et al. (2008)	Q	
	1.5×10^{-3}		Nirmalakhandan et al. (1997)	Q	
	6.5×10^{-3}		Meylan and Howard (1991)	Q	
methyl 2-propyl ether $CH_3OC_3H_7$ (methyl isopropyl ether) [598-53-8]	1.2×10^{-2}		Hine and Mookerjee (1975)	V	
	8.2×10^{-3}		Hilal et al. (2008)	Q	
divinyl ether C_4H_6O [109-93-3]	5.4×10^{-4}		Steward et al. (1973)	L	19
	3.8×10^{-4}		Hilal et al. (2008)	Q	
	2.0×10^{-3}		Nirmalakhandan et al. (1997)	Q	
methyl butyl ether $C_5H_{12}O$ [628-28-4]	4.4×10^{-3}		Amoore and Buttery (1978)	V	
2-methoxybutane $C_5H_{12}O$ [6795-87-5]	6.2×10^{-3}		Hilal et al. (2008)	Q	
methyl *tert*-butyl ether $CH_3OC(CH_3)_3$ (MTBE) [1634-04-4]	1.7×10^{-2}	9100	Hiatt (2013)	M	
	3.2×10^{-2}		Zhang et al. (2013)	M	
	1.1×10^{-2}	4800	Sieg et al. (2009)	M	121
	1.1×10^{-2}	4400	Falabella and Teja (2008)	M	89, 130
	1.2×10^{-2}	5000	Arp and Schmidt (2004)	M	209
	1.4×10^{-2}	4500	Fischer et al. (2004)	M	
	7.2×10^{-3}	3200	Bierwagen and Keller (2001)	M	
	1.7×10^{-2}		Miller and Stuart (2000)	M	126
	2.3×10^{-2}		Park et al. (1997)	M	
	1.6×10^{-2}	7700	Robbins et al. (1993)	M	
	1.4×10^{-2}		Mackay et al. (2006c)	V	
	1.6×10^{-2}		Park et al. (1997)	V	
	1.4×10^{-2}		Mackay et al. (1993)	V	
	2.0×10^{-2}		Hwang et al. (1992)	V	
	1.7×10^{-2}		Guthrie (1973)	V	
	1.7×10^{-2}		Bagno et al. (1991)	T	196
	3.9×10^{-3}		Hilal et al. (2008)	Q	
		6300	Kühne et al. (2005)	Q	
	8.6×10^{-4}		Nirmalakhandan et al. (1997)	Q	
		6000	Kühne et al. (2005)	?	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
ethyl propyl ether	8.6×10^{-3}		Hine and Mookerjee (1975)	V	
$C_2H_5OC_3H_7$	8.6×10^{-3}		Butler and Ramchandani (1935)	V	
[628-32-0]	7.7×10^{-3}		Howard and Meylan (1997)	X	181
	7.9×10^{-3}		Hilal et al. (2008)	Q	
1-ethoxy-butane	6.4×10^{-3}		Miller and Stuart (2000)	M	126
$C_6H_{14}O$	7.8×10^{-3}		Mackay et al. (2006c)	V	
(ethyl butyl ether)	7.8×10^{-3}		Mackay et al. (1993)	V	
[628-81-9]		5900	Kühne et al. (2005)	Q	
		5000	Kühne et al. (2005)	?	
ethyl *tert*-butyl ether	6.3×10^{-3}	6600	Sieg et al. (2009)	M	121
$C_2H_5OC(CH_3)_3$	4.4×10^{-3}	4300	Falabella and Teja (2008)	M	89, 130
(ETBE)	6.1×10^{-3}	6500	Arp and Schmidt (2004)	M	
[637-92-3]	4.2×10^{-3}		Miller and Stuart (2000)	M	126
	3.7×10^{-3}	7600	Pankow et al. (1996)	?	
2-methoxy-2-methylbutane	8.6×10^{-3}	6500	Arp and Schmidt (2004)	M	
$C_6H_{14}O$	5.2×10^{-3}		Miller and Stuart (2000)	M	126
(*tert*-amyl methyl ether)	1.0×10^{-2}		Dohnal and Hovorka (1999)	M	
[994-05-8]	7.0×10^{-3}		Park et al. (1997)	M	
	8.1×10^{-3}		Park et al. (1997)	V	
		6600	Kühne et al. (2005)	Q	
		6900	Kühne et al. (2005)	?	
	5.0×10^{-3}	7600	Pankow et al. (1996)	?	
dipropyl ether	3.0×10^{-3}		Li and Carr (1993)	M	
$C_3H_7OC_3H_7$	2.9×10^{-3}		Li et al. (1993)	M	
[111-43-3]	2.2×10^{-3}	9100	Hartkopf and Karger (1973)	M	
	3.9×10^{-3}		Mackay et al. (2006c)	V	
	3.9×10^{-3}		Mackay et al. (1993)	V	
	5.7×10^{-3}		Hwang et al. (1992)	V	
	2.9×10^{-3}		Hine and Mookerjee (1975)	V	
	2.8×10^{-3}		Butler and Ramchandani (1935)	V	
	6.0×10^{-3}		Hilal et al. (2008)	Q	
		5900	Kühne et al. (2005)	Q	
	1.0×10^{-3}		Nirmalakhandan et al. (1997)	Q	
		7300	Kühne et al. (2005)	?	
	1.9×10^{-3}		Hoff et al. (1993)	?	7
	4.5×10^{-3}		Yaws and Yang (1992)	?	92
	2.9×10^{-3}		Abraham et al. (1990)	?	
diisopropyl ether	3.9×10^{-3}	6400	Arp and Schmidt (2004)	M	
$C_3H_7OC_3H_7$	4.3×10^{-3}		Miller and Stuart (2000)	M	126
[108-20-3]	4.7×10^{-3}		Dohnal and Hovorka (1999)	M	
	4.8×10^{-3}		Nielsen et al. (1994)	M	
	4.2×10^{-3}		Li and Carr (1993)	M	
	4.4×10^{-3}		Li et al. (1993)	M	
	2.8×10^{-3}		Guitart et al. (1989)	M	19
	4.3×10^{-3}		HSDB (2015)	V	
	3.9×10^{-3}		Mackay et al. (2006c)	V	
	3.1×10^{-3}	6400	Pankow et al. (1996)	V	
	3.9×10^{-3}		Mackay et al. (1993)	V	
	9.9×10^{-4}		Hine and Mookerjee (1975)	V	
	9.8×10^{-4}		Hine and Weimar (1965)	V	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	3.7×10^{-3}		Hilal et al. (2008)	Q	
		6600	Kühne et al. (2005)	Q	
	8.0×10^{-4}		Nirmalakhandan et al. (1997)	Q	
		7200	Kühne et al. (2005)	?	
	5.7×10^{-3}		Yaws and Yang (1992)	?	92
	9.9×10^{-4}		Abraham et al. (1990)	?	
2-ethyl-2-ethoxypropane $C_7H_{16}O$ [919-94-8]	2.4×10^{-3}		Hilal et al. (2008)	Q	
dibutyl ether $C_4H_9OC_4H_9$ [142-96-1]	2.2×10^{-3}		Li and Carr (1993)	M	
	1.3×10^{-3}		Li et al. (1993)	M	
	2.1×10^{-3}		Mackay et al. (2006c)	V	
	2.1×10^{-3}		Mackay et al. (1993)	V	
	1.6×10^{-3}		Pierotti et al. (1959)	X	165
	3.1×10^{-3}		Hilal et al. (2008)	Q	
		6600	Kühne et al. (2005)	Q	
	6.4×10^{-4}		Nirmalakhandan et al. (1997)	Q	
		7000	Kühne et al. (2005)	?	
	1.6×10^{-3}		Abraham et al. (1990)	?	
diisobutyl ether $C_8H_{18}O$ [628-55-7]	3.7×10^{-3}		Hilal et al. (2008)	Q	
1,1'-oxybispentane $C_{10}H_{22}O$ [693-65-2]	2.7×10^{-3}		Hilal et al. (2008)	Q	
1,1'-oxybis(3-methylbutane) $C_{10}H_{22}O$ (diisopentyl ether) [544-01-4]	6.6×10^{-3}		HSDB (2015)	V	
	3.3×10^{-3}		Hilal et al. (2008)	Q	
1,1'-oxybishexane $C_{12}H_{26}O$ [112-58-3]	1.8×10^{-3}		Hilal et al. (2008)	Q	
1-ethoxy-3,7-dimethyloctane $C_{12}H_{26}O$ [22810-10-2]	6.7×10^{-4}		Zhang et al. (2010)	Q	107, 108
	5.3×10^{-3}		Zhang et al. (2010)	Q	107, 109
	1.3×10^{-3}		Zhang et al. (2010)	Q	107, 110
	2.5×10^{-4}		Zhang et al. (2010)	Q	107, 111
methoxycyclohexane $C_7H_{14}O$ [931-56-6]	3.1×10^{-2}		Hilal et al. (2008)	Q	
methyl cedryl ether $C_{16}H_{28}O$ [19870-74-7]	2.5×10^{-3}		Zhang et al. (2010)	Q	107, 108
	2.4×10^{-3}		Zhang et al. (2010)	Q	107, 109
	7.7×10^{-3}		Zhang et al. (2010)	Q	107, 110
	1.2×10^{-3}		Zhang et al. (2010)	Q	107, 111
dimethoxymethane $CH_3OCH_2OCH_3$ [109-87-5]	6.1×10^{-2}		HSDB (2015)	V	
	5.7×10^{-2}		Pierotti et al. (1959)	X	165
	2.3×10^{-1}		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
trimethoxymethane $HC(OCH_3)_3$ [149-73-5]	6.9×10^{-1}		Guthrie (1973)	V	
1,1-diethoxyethane $(C_2H_5O)_2CHCH_3$ [105-57-7]	1.0×10^{-1} 1.0×10^{-1} 5.7×10^{-2}		HSDB (2015) Hine and Mookerjee (1975) Hilal et al. (2008)	V V Q	
1,2-diethoxyethane $C_2H_5OC_2H_4OC_2H_5$ [629-14-1]	1.6×10^{-1} 1.6×10^{-1} 1.2×10^{-1} 3.9×10^{-1}		HSDB (2015) Hine and Mookerjee (1975) Howard and Meylan (1997) Hilal et al. (2008)	V V X Q	 181
1,1,1-trimethoxyethane $CH_3C(OCH_3)_3$ [1445-45-0]	6.4×10^{-1}		Guthrie (1973)	V	
1,2-dimethoxyethane $C_4H_{10}O_2$ [110-71-4]	1.4 9.0 5.3×10^{-1}	7100	Cabani et al. (1978) HSDB (2015) Hilal et al. (2008)	T Q Q	 38
3-oxa-1-hexanol $C_5H_{12}O_2$ (2-propoxyethanol) [2807-30-9]	2.0×10^{1} 6.6×10^{2} 1.0×10^{1} 5.8	8400	Cabani et al. (1978) HSDB (2015) Hilal et al. (2008) Nirmalakhandan et al. (1997)	T Q Q Q	 38
3-oxa-1-heptanol $C_6H_{14}O_2$ (2-butoxyethanol; butyl cellosolve) [111-76-2]	3.5 1.3×10^{1} 2.7 1.6×10^{1} 7.7 4.5	7700 8300 8900	Hiatt (2013) Kim et al. (2000) Johanson and Dynésius (1988) Cabani et al. (1978) Hilal et al. (2008) Nirmalakhandan et al. (1997)	M M M T Q Q	 19
1-methoxy-2-propanol $C_4H_{10}O_2$ [107-98-2]	4.8 1.1×10^{1} 1.2×10^{1}		Johanson and Dynésius (1988) Hilal et al. (2008) Hilal et al. (2008)	M C Q	19
4-methyl-3-oxa-1-pentanol $C_5H_{12}O_2$ (2-isopropoxyethanol) [109-59-1]	4.8 7.9		Johanson and Dynésius (1988) Hilal et al. (2008)	M Q	19
1,2-dibutoxyethane $C_{10}H_{22}O_2$ [112-48-1]	9.9×10^{-1} 1.4×10^{-1}		HSDB (2015) Hilal et al. (2008)	V Q	
3,6-dioxa-1-decanol $C_8H_{18}O_3$ (butyl carbitol) [112-34-5]	1.4×10^{3}		Kim et al. (2000)	M	
1,1'-[oxybis(2,1-ethanediyloxy)]bisbutane $C_{12}H_{26}O_3$ [112-73-2]	3.5		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
methoxyethene C_3H_6O (vinyl methyl ether) [107-25-5]	1.5×10^{-3}		HSDB (2015)	V	
1-(ethenyloxy)butane $C_6H_{12}O$ (butyl vinyl ether) [111-34-2]	4.5×10^{-3}		HSDB (2015)	V	
vinylisobutyl ether $C_6H_{12}O$ [109-53-5]	1.9×10^{-4}		Hilal et al. (2008)	Q	
methoxybenzene $C_6H_5OCH_3$ (anisole) [100-66-3]	2.9×10^{-2}	4200	Brockbank et al. (2013)	M	
	2.6×10^{-2}	4800	Dewulf et al. (1999)	M	
	3.2×10^{-2}		Li and Carr (1993)	M	
	3.1×10^{-2}		Mackay et al. (2006c)	V	
	4.0×10^{-2}		Mackay et al. (1993)	V	
	2.3×10^{-3}		Hine and Mookerjee (1975)	V	
	2.3×10^{-3}		Hine and Weimar (1965)	R	
	6.9×10^{-2}		Schüürmann (2000)	C	7
	2.3×10^{-3}		HSDB (2015)	Q	38
	9.0×10^{-3}		Hilal et al. (2008)	Q	
		4500	Kühne et al. (2005)	Q	
	1.2×10^{-2}		Nirmalakhandan et al. (1997)	Q	
		4300	Kühne et al. (2005)	?	
	2.5×10^{-2}		Abraham et al. (1990)	?	
ethoxybenzene $C_8H_{10}O$ (phenetole) [103-73-1]	1.7×10^{-2}		Li and Carr (1993)	M	
	2.2×10^{-2}		HSDB (2015)	V	
	2.3×10^{-2}		Mackay et al. (2006c)	V	
	6.5×10^{-3}		Hilal et al. (2008)	Q	
	1.0×10^{-2}		Nirmalakhandan et al. (1997)	Q	
	1.7×10^{-2}		Abraham et al. (1990)	?	
1,2-dimethoxybenzene $C_8H_{10}O_2$ [91-16-7]		5100	Kühne et al. (2005)	Q	
		2400	Kühne et al. (2005)	?	
2-phenoxyethanol $C_8H_{10}O_2$ [122-99-6]	2.0×10^{2}		HSDB (2015)	V	
	3.4×10^{1}		Hilal et al. (2008)	Q	
2-(phenylmethoxy)-ethanol $C_9H_{12}O_2$ [622-08-2]	1.5×10^{2}		Hilal et al. (2008)	Q	
1,2,3-trimethoxybenzene $C_9H_{12}O_3$ [634-36-6]	3.6		Schüürmann (2000)	V	
1-methoxy-4-(1-propenyl)-benzene $C_{10}H_{12}O$ (anethole) [104-46-1]	9.9×10^{-2}	6200	van Roon et al. (2005)	V	
	1.4×10^{-1}		HSDB (2015)	Q	38
	2.0×10^{-2}		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2-methoxy-4-(2-propenyl)-phenol	5.1		HSDB (2015)	V	
$C_{10}H_{12}O_2$	7.2	9700	van Roon et al. (2005)	V	
(eugenol)					
[97-53-0]					
1,2-dimethoxy-4-(2-propenyl)-benzene	1.8		HSDB (2015)	V	
$C_{11}H_{14}O_2$	3.6		Hilal et al. (2008)	Q	
[93-15-2]					
diphenyl ether	3.5×10^{-2}		HSDB (2015)	V	
$C_{12}H_{10}O$	3.7×10^{-2}		Mackay et al. (2006c)	V	
[101-84-8]	1.1×10^{-1}		Kurz and Ballschmiter (1999)	V	
	3.7×10^{-2}		Mackay et al. (1993)	V	
	1.7×10^{-2}		Hilal et al. (2008)	Q	
(phenoxymethyl)-oxirane	1.2×10^{1}		HSDB (2015)	V	
$C_9H_{10}O_2$	6.1×10^{-1}		Hilal et al. (2008)	Q	
[122-60-1]					
1-dodecyl-4-phenoxybenzene	3.4×10^{-3}		Zhang et al. (2010)	Q	107, 108
$C_{24}H_{34}O$	1.4×10^{-3}		Zhang et al. (2010)	Q	107, 109
[119345-02-7]	1.7×10^{-2}		Zhang et al. (2010)	Q	107, 110
	7.7×10^{-2}		Zhang et al. (2010)	Q	107, 111
2,2,4-trimethyl-4-(4-(4-(2,4,4-trimethylpentan-2-yl)phenoxy)phenyl)pentane	1.3×10^{-3}		Zhang et al. (2010)	Q	107, 108
$C_{28}H_{42}O$	1.2×10^{-3}		Zhang et al. (2010)	Q	107, 109
[61702-88-3]	5.4×10^{-2}		Zhang et al. (2010)	Q	107, 110
	6.9×10^{-3}		Zhang et al. (2010)	Q	107, 111
di-*tert*-butyl *sec*-butylidene diperoxide	1.2×10^{-2}		Zhang et al. (2010)	Q	107, 108
$C_{12}H_{26}O_4$	6.1×10^{-5}		Zhang et al. (2010)	Q	107, 109
[2167-23-9]	1.6×10^{-2}		Zhang et al. (2010)	Q	107, 110
	1.1		Zhang et al. (2010)	Q	107, 111
peroxide, 1,1-dimethylethyl 1-methyl-1-phenylethyl	1.4×10^{-2}		Zhang et al. (2010)	Q	107, 108
$C_{13}H_{20}O_2$	4.8×10^{-3}		Zhang et al. (2010)	Q	107, 109
[3457-61-2]	1.6×10^{-2}		Zhang et al. (2010)	Q	107, 110
	1.9×10^{-1}		Zhang et al. (2010)	Q	107, 111
di-*tert*-butyl 1,1,4,4-tetramethyltetramethylene diperoxide	3.9×10^{-3}		Zhang et al. (2010)	Q	107, 108
$C_{16}H_{34}O_4$	7.9×10^{-4}		Zhang et al. (2010)	Q	107, 109
[78-63-7]	1.3×10^{-1}		Zhang et al. (2010)	Q	107, 110
	3.4×10^{-1}		Zhang et al. (2010)	Q	107, 111
1,4-bis(1-*tert*-butylperoxy-1-methyl-ethyl)benzene	1.0×10^{-1}		Zhang et al. (2010)	Q	107, 108
$C_{20}H_{34}O_4$	1.8×10^{-2}		Zhang et al. (2010)	Q	107, 109
[2781-00-2]	2.9×10^{-1}		Zhang et al. (2010)	Q	107, 110
	8.6		Zhang et al. (2010)	Q	107, 111
Heterocycles with oxygen					

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2-furanmethanol	1.2×10^{2}		HSDB (2015)	V	
$C_5H_6O_2$	3.4×10^{1}		Hilal et al. (2008)	Q	
[98-00-0]					
tetrahydropyran-2-methanol	9.0×10^{1}		Hilal et al. (2008)	Q	
$C_6H_{12}O_2$					
[100-72-1]					
oxirane	5.8×10^{-2}	3200	Conway et al. (1983)	M	
C_2H_4O	8.3×10^{-2}		Lide and Frederikse (1995)	V	
(ethylene oxide)	8.6×10^{-2}		Mackay et al. (1993)	V	
[75-21-8]	5.0×10^{-2}		Hwang et al. (1992)	V	
	3.9×10^{-2}		Hilal et al. (2008)	Q	
1,2-epoxypropane	1.4×10^{-1}		HSDB (2015)	V	
C_3H_6O	1.2×10^{-1}		Mackay et al. (2006c)	V	
(propyleneoxide)	1.2×10^{-1}		Lide and Frederikse (1995)	V	
[75-56-9]	1.2×10^{-1}		Mackay et al. (1993)	V	
	5.2×10^{-2}		Goldstein (1982)	X	181
	5.1×10^{-2}	3500	Goldstein (1982)	X	116
	1.7×10^{-2}		Hilal et al. (2008)	Q	
phenyloxirane	6.2×10^{-1}		HSDB (2015)	V	
C_8H_8O	5.8×10^{-1}		Mackay et al. (2006c)	V	
(styrene oxide)	5.8×10^{-1}		Mackay et al. (1993)	V	
[96-09-3]	6.2×10^{-1}		Meylan and Howard (1991)	V	
	2.5×10^{-1}		Hilal et al. (2008)	Q	
	1.0		Meylan and Howard (1991)	Q	
oxacyclopentadiene	1.8×10^{-3}		HSDB (2015)	V	
C_4H_4O	1.8×10^{-3}		Mackay et al. (2006c)	V	
(furan; furfuran)	1.8×10^{-3}		Mackay et al. (1993)	V	
[110-00-9]	2.3×10^{-3}		Hilal et al. (2008)	Q	
	1.8×10^{-3}		Yaws and Yang (1992)	?	92
dibenzofuran	4.7×10^{-2}		HSDB (2015)	V	
$C_{12}H_8O$	7.1×10^{-2}		Mackay et al. (2006b)	V	
(2,2'-biphenylene oxide)	7.2×10^{-2}		Govers and Krop (1998)	V	
[132-64-9]	9.1×10^{-2}		Mackay et al. (1992b)	X	142
	8.2×10^{-2}		Saçan et al. (2005)	Q	
	4.7×10^{-2}		Govers and Krop (1998)	Q	
2-furancarboxaldehyde	2.6		HSDB (2015)	V	
$C_5H_4O_2$	2.7		Mackay et al. (2006c)	V	
(furfural; 2-furanaldehyde)	2.7		Mackay et al. (1995)	V	
[98-01-1]	6.0		Hilal et al. (2008)	Q	
	7.2×10^{-2}		Emel'yanenko et al. (2007)	Q	166
	7.2×10^{-2}		Hertel and Sommer (2006)	Q	166
		6100	Kühne et al. (2005)	Q	
		5900	Kühne et al. (2005)	?	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
tetrahydrofuran	2.2×10^{-1}		Signer et al. (1969)	M	
C_4H_8O	1.4×10^{-1}	5700	Cabani et al. (1971b)	T	
(THF)	1.1×10^{-1}		Hilal et al. (2008)	Q	
[109-99-9]		4000	Kühne et al. (2005)	Q	
		3200	Kühne et al. (2005)	?	
	1.4×10^{-1}		Abraham et al. (1990)	?	
tetrahydrofuran-d8	2.3×10^{-1}	8000	Hiatt (2013)	M	
C_4D_8O					
(THF-d8)					
[1693-74-9]					
2-methyltetrahydrofuran	1.5×10^{-3}		Mackay et al. (1993)	V	
$CH_3C_4H_7O$	1.1×10^{-1}	6200	Cabani et al. (1971b)	T	
[96-47-9]	6.1×10^{-2}		Hilal et al. (2008)	Q	
		4400	Kühne et al. (2005)	Q	
		5400	Kühne et al. (2005)	?	
2,5-dimethyltetrahydrofuran	5.5×10^{-2}	6800	Cabani et al. (1971b)	T	
$(CH_3)_2C_4H_6O$	3.1×10^{-2}		Hilal et al. (2008)	Q	
[1003-38-9]					
tetrahydropyran	1.0×10^{-1}		Mackay et al. (2006c)	V	
$C_5H_{10}O$	1.0×10^{-1}		Mackay et al. (1993)	V	
(THP)	7.8×10^{-2}	5900	Cabani et al. (1971b)	T	
[142-68-7]	1.1×10^{-1}		Hilal et al. (2008)	Q	
	7.9×10^{-2}		Abraham et al. (1990)	?	
3-methyltetrahydropyran		4700	Kühne et al. (2005)	Q	
$C_6H_{12}O$		5300	Kühne et al. (2005)	?	
[26093-63-0]					
3,4-dihydro-2H-pyran		3500	Kühne et al. (2005)	Q	
C_5H_8O		3600	Kühne et al. (2005)	?	
[110-87-2]					
1,3-dioxolane	4.0×10^{-1}	4800	Cabani et al. (1971b)	T	
$C_3H_6O_2$	1.5		Hilal et al. (2008)	Q	
[646-06-0]					
1,3-dioxane	2.1		Hilal et al. (2008)	Q	
$C_4H_8O_2$					
[505-22-6]					
1,4-dioxane	2.3	6600	Hiatt (2013)	M	
$C_4H_8O_2$	1.4	5100	Kolb et al. (1992)	M	102
(dioxane)	2.1		Park et al. (1987)	M	
[123-91-1]	1.4		Friant and Suffet (1979)	M	23
	2.2		Rohrschneider (1973)	M	
	1.9		Hwang et al. (1992)	V	
	1.1		Amoore and Buttery (1978)	V	
	2.0	5800	Cabani et al. (1971b)	T	
	3.3		Hilal et al. (2008)	Q	
		5200	Kühne et al. (2005)	Q	
		6100	Kühne et al. (2005)	?	
	2.0		Betterton (1992)	?	210

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	2.2		Betterton (1992)	?	211
	1.4		Yaws and Yang (1992)	?	92
1,4-dioxane-d8 $C_4D_8O_2$ (dioxane-d8) [17647-74-4]	2.8	6800	Hiatt (2013)	M	
4-methyl-1,3-dioxolan-2-one $C_4H_6O_3$ (propylene carbonate) [108-32-7]	2.9×10^{2} 1.4×10^{2}		HSDB (2015) Abraham et al. (1990)	V ?	
1,3,3-trimethyl-2-oxabicyclo[2.2.2]octane $C_{10}H_{18}O$ (eucalyptol; limonene oxide; 1,8-cineole) [470-82-6]	5.9×10^{-2} 5.6×10^{-2} 1.2×10^{-1} 7.5×10^{-2} 2.7×10^{-2} 7.4×10^{-2} 7.8×10^{-2} 2.2×10^{-2}	 4600 	Kish et al. (2013) Fichan et al. (1999) Amoore and Buttery (1978) Copolovici and Niinemets (2005) van Roon et al. (2005) Niinemets and Reichstein (2002) Amoore and Buttery (1978) Hilal et al. (2008)	M M M V V V V Q	
dibenzo[b,e][1,4]dioxin $C_{12}H_8O_2$ (dibenzo-*p*-dioxin) [262-12-4]	9.0×10^{-2} 8.5×10^{-2} 9.5×10^{-3} 8.5×10^{-2} 8.1×10^{-2} 2.7×10^{-2} 6.3×10^{-2} 9.1×10^{-2}		HSDB (2015) Mackay et al. (2006b) Saçan et al. (2005) Govers and Krop (1998) Shiu et al. (1988) Saçan et al. (2005) Wang and Wong (2002) Govers and Krop (1998)	V V V V V Q Q Q	 212
piperonal $C_8H_6O_3$ [120-57-0]	1.8×10^{1} 4.1×10^{2}		HSDB (2015) Hilal et al. (2008)	V Q	
paraldehyde $C_6H_{12}O_3$ [123-63-7]	2.5×10^{-1} 3.6×10^{-1}		HSDB (2015) Hilal et al. (2008)	V Q	
benzofuran C_8H_6O [271-89-6]	1.9×10^{-2} 1.9×10^{-2}		HSDB (2015) Hilal et al. (2008)	Q Q	38
γ-nonalactone $C_9H_{16}O_2$ [104-61-0]	1.8×10^{-1}		Hertel and Sommer (2006)	Q	166
1,5,5,9-tetramethyl-13-oxatricyclo(8.3.0.0(4,9))tridecane $C_{16}H_{28}O$ (ambroxan) [3738-00-9]	2.0×10^{-2} 2.9×10^{-1} 6.5×10^{-2} 1.1×10^{-3}		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylcyclopenta[g]-2-benzopyran	7.6×10^{-2}		HSDB (2015)	V	
$C_{18}H_{26}O$	7.5×10^{-2}		Zhang et al. (2010)	Q	107, 108
[1222-05-5]	8.2		Zhang et al. (2010)	Q	107, 109
	8.4×10^{-2}		Zhang et al. (2010)	Q	107, 110
	9.9×10^{-3}		Zhang et al. (2010)	Q	107, 111
Oxidized terpenoids					
(1S-endo)-1,7,7-trimethyl-bicyclo[2.2.1]heptan-2-ol	4.5×10^{-1}		Fichan et al. (1999)	M	
$C_{10}H_{18}O$					
(1S-endo-(-)-borneol)					
[464-45-9]					
(1R)-1,3,3-trimethylbicyclo[2.2.1]heptan-2-ol	3.6×10^{-1}		Fichan et al. (1999)	M	
$C_{10}H_{18}O$					
(endo-(+)-fenchyl alcohol)					
[2217-02-9]					
2-(4-methyl-3-cyclohexen-1-yl)-2-propanol	4.4	2200	Copolovici and Niinemets (2005)	M	
$C_{10}H_{18}O$	4.1		Copolovici and Niinemets (2005)	V	
(α-terpineol)	6.0×10^{-1}	4800	van Roon et al. (2005)	V	
[98-55-5]	4.2		Niinemets and Reichstein (2002)	V	
	7.4×10^{-1}	5400	Li et al. (1998)	V	
	3.6		Hilal et al. (2008)	Q	
1,2-dimethyl-3-(1-methylethenyl)-cyclopentanol	4.0×10^{-1}	17000	Li et al. (1998)	V	
$C_{10}H_{18}O$					
(plinol)					
[72402-00-7]					
1-methyl-4-(1-methylethyl)-7-oxabicyclo[2.2.1]heptane	3.9×10^{-2}		Helburn et al. (2008)	M	
$C_{10}H_{18}O$	7.4×10^{-2}		Copolovici and Niinemets (2005)	V	
(1,4-cineole)	1.4×10^{-1}	4000	van Roon et al. (2005)	V	
[470-67-7]					
1,7,7-trimethyl-bicyclo[2.2.1]heptan-2-one	1.2×10^{-1}		HSDB (2015)	V	
$C_{10}H_{16}O$	1.1		Copolovici and Niinemets (2005)	V	
(camphor)	5.4×10^{-1}	4800	van Roon et al. (2005)	V	
[76-22-2]	8.2×10^{-1}		Niinemets and Reichstein (2002)	V	
2,7,7-trimethyl-3-oxatricyclo[4.1.1.0(2,4)]octane	2.3×10^{-2}		Fichan et al. (1999)	M	
$C_{10}H_{16}O$	2.4×10^{-2}		Copolovici and Niinemets (2005)	V	
((-)-α-pinene oxide)	5.4×10^{-2}	4400	van Roon et al. (2005)	V	
[1686-14-2]					

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
5-methyl-2-(1-methylethylidene)-cyclohexanone	2.8×10^{-1}	5300	van Roon et al. (2005)	V	
$C_{10}H_{16}O$ (pulegone) [89-82-7]	1.7×10^{-1}		HSDB (2015)	Q	38
exo-2-[(1,7,7-trimethylbicyclo[2.2.1]hept-2-yl)-oxy]ethanol $C_{12}H_{22}O_2$ (arbanol) [7070-15-7]	1.0	4100	Li et al. (1998)	V	
4-(2,6,6-trimethyl-1-cyclohexenyl)-3-buten-2-one $C_{13}H_{20}O$ (beta-ionone) [14901-07-6]	1.2		Fichan et al. (1999)	M	
Miscellaneous					
oxoethanoic acid	1.1×10^{2}	4800	Sander et al. (2011)	L	
OHCCOOH	1.1×10^{2}	4800	Ip et al. (2009)	M	
(glyoxylic acid)	3.3×10^{3}		HSDB (2015)	Q	38
[298-12-4]	8.9×10^{1}		Saxena and Hildemann (1996)	E	158
			Warneck (2005)	?	213
hydroxyethanoic acid	2.8×10^{2}	4000	Sander et al. (2011)	L	
$HOCH_2COOH$	2.8×10^{2}	4000	Ip et al. (2009)	M	
(glycolic acid) [79-14-1]					
2-hydroxyethanal	4.1×10^{2}	4600	Betterton and Hoffmann (1988)	M	192
$HOCH_2CHO$	9.9×10^{2}		Lee and Zhou (1993)	C	31
(hydroxyacetaldehyde; glycolaldehyde)	6.5×10^{2}		Hilal et al. (2008)	Q	
[141-46-8]		7600	Kühne et al. (2005)	Q	
		4600	Kühne et al. (2005)	?	
propanonal	3.2×10^{2}		Zhou and Mopper (1990)	M	127
CH_3COCHO	3.4×10^{1}	7500	Betterton and Hoffmann (1988)	M	192
(methylglyoxal; pyruvaldehyde)	3.7×10^{2}		Lee and Zhou (1993)	C	31
[78-98-8]		6200	Kühne et al. (2005)	Q	
		7600	Kühne et al. (2005)	?	
2-oxopropanoic acid	3.1×10^{3}	5100	Sander et al. (2011)	L	
$CH_3COCOOH$	3.1×10^{3}	5100	Sander et al. (2006)	L	
(pyruvic acid)	3.0×10^{3}	5300	Staudinger and Roberts (2001)	L	
[127-17-3]	3.1×10^{3}	5100	Khan et al. (1995)	M	
	3.1×10^{3}		Khan et al. (1992)	M	
	3.1×10^{3}	5200	Khan and Brimblecombe (1992)	M	
	2.6×10^{3}		Hilal et al. (2008)	Q	
		5600	Kühne et al. (2005)	Q	
		5300	Kühne et al. (2005)	?	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
3-oxopropanoic acid $OHCCH_2COOH$ [926-61-4]	6.9×10^{1}		Saxena and Hildemann (1996)	E	158
2-hydroxypropanoic acid $CH_3CHOHCOOH$ (lactic acid) [50-21-5]	1.2×10^{2} 6.9×10^{5}		HSDB (2015) Saxena and Hildemann (1996)	V E	 158
glycidaldehyde $C_3H_4O_2$ [765-34-4]	1.9×10^{1}		HSDB (2015)	Q	38
trimethylene oxide C_3H_6O (1,3-epoxypropane) [503-30-0]	3.9×10^{-1}		HSDB (2015)	V	
2,3-dihydroxypropanal $C_3H_6O_3$ (glyceraldehyde) [367-47-5]	2.0×10^{8}		Saxena and Hildemann (1996)	E	158
dihydroxyacetone $C_3H_6O_3$ [96-26-4]	1.8×10^{6}		HSDB (2015)	V	
2-methoxyethanol $C_3H_8O_2$ (methyl cellosolve) [109-86-4]	4.4 2.2×10^{-4} 1.4×10^{1} 3.7×10^{1} 2.1×10^{1} 1.5×10^{1}	 -870 7300	Hiatt (2013) Ashworth et al. (1988) Johanson and Dynésius (1988) Cabani et al. (1978) Hilal et al. (2008) Nirmalakhandan et al. (1997)	M M M T Q Q	 103 19
4-oxobutanoic acid $OHC(CH_2)_2COOH$ [692-29-5]	4.9×10^{1}		Saxena and Hildemann (1996)	E	158
2,3-dihydroxybutanedioic acid $HOOCCHOHCHOHCOOH$ (tartaric acid) [87-69-4]	 9.9×10^{15}		Compernolle and Müller (2014a) Saxena and Hildemann (1996)	V E	214 158
3-oxapentane-1,5-diol $HO(CH_2)_2O(CH_2)_2OH$ (diethylene glycol) [111-46-6]	4.9×10^{3} 2.4×10^{4} 2.0×10^{7}		HSDB (2015) Hilal et al. (2008) Saxena and Hildemann (1996)	Q Q E	38 158
hydroxybutanedioic acid $HOOCCH_2CHOHCOOH$ (malic acid) [6915-15-7]	2.7×10^{8} 1.2×10^{7} 2.0×10^{11}		Compernolle and Müller (2014a) HSDB (2015) Saxena and Hildemann (1996)	V Q E	 38 158

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2-ethoxyethanol $C_4H_{10}O_2$ [110-80-5]	8.9 3.3×10^{1} 2.8×10^{1} 1.6×10^{1} 7.5	 8000 	Johanson and Dynésius (1988) Abraham et al. (1994a) Cabani et al. (1978) Hilal et al. (2008) Nirmalakhandan et al. (1997)	M R T Q Q	19
2-methoxy-1-propanol $C_4H_{10}O_2$ [1589-47-5]	5.5×10^{2}		HSDB (2015)	Q	38
1,1-dimethoxyethane $C_4H_{10}O_2$ [534-15-6]	1.5×10^{-1}		HSDB (2015)	Q	38
4-methylene-2-oxetanone $C_4H_4O_2$ (acetyl ketene) [674-82-8]	1.6×10^{-2}		HSDB (2015)	Q	38
2(5H)-furanone $C_4H_4O_2$ [497-23-4]	1.0		HSDB (2015)	Q	38
2,2'-bioxirane $C_4H_6O_2$ [1464-53-5]	2.8×10^{2}		HSDB (2015)	Q	38
butyrolactone $C_4H_6O_2$ [96-48-0]	1.9×10^{2}		HSDB (2015)	V	
ethyloxirane C_4H_8O (1,2-epoxybutane) [106-88-7]	5.5×10^{-2}		HSDB (2015)	V	
2,3-epoxy-2-methyl-1,4-butanediol $C_5H_{10}O_3$ (IEPOX)			Chan et al. (2010)	Q	215
2,3-epoxy-6-oxo-heptenal $C_7H_8O_3$ (TOL_EPOX)	2.5×10^{3}		McNeill et al. (2012)	Q	
3-hydroxy-2-butanone $C_4H_8O_2$ (acetoin) [513-86-0]	5.7×10^{-1} 9.9×10^{-1}		Straver and de Loos (2005) HSDB (2015)	M Q	 38
2-(vinyloxy)ethanol $C_4H_8O_2$ (ethylene glycol monovinyl ether) [764-48-7]	3.9×10^{1}		HSDB (2015)	Q	38
2-methyloxetane C_4H_8O [2167-39-7]	1.2×10^{-1}		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
5-oxopentanoic acid $\mathrm{OHC(CH_2)_3COOH}$ [5746-02-1]	3.9×10^{1}		Saxena and Hildemann (1996)	E	158
2-oxopentanedioic acid $\mathrm{HOOC(CH_2)_2COCOOH}$ (α-keto glutaric acid) [328-50-7]	9.9×10^{6}		Saxena and Hildemann (1996)	E	158
tetrahydro-2-furanmethanol $\mathrm{C_5H_{10}O_2}$ (tetrahydrofurfuryl alcohol) [97-99-4]	2.4×10^{3}		HSDB (2015)	Q	38
xylose $\mathrm{C_5H_{10}O_5}$ [58-86-6]	8.2×10^{3}		HSDB (2015)	Q	38
2-(2-methoxyethoxy)ethanol $\mathrm{C_5H_{12}O_3}$ (diethylene glycol monomethyl ether) [111-77-3]	6.2×10^{5}		HSDB (2015)	Q	38
3,6-dioxaoctane-1,8-diol $\mathrm{HO(CH_2CH_2O)_3H}$ (triethylene glycol) [112-27-6]	3.1×10^{5} 8.9×10^{9}		HSDB (2015) Saxena and Hildemann (1996)	Q E	38 158
2-oxepanone $\mathrm{C_6H_{10}O_2}$ (caprolactone) [502-44-3]	5.5×10^{-2}		HSDB (2015)	Q	38
glycidyl ether $\mathrm{C_6H_{10}O_3}$ (diglycidyl ether) [2238-07-5]	7.6×10^{2}		HSDB (2015)	Q	38
4-hydroxy-4-methyl-2-pentanone $\mathrm{C_6H_{12}O_2}$ [123-42-2]	2.3×10^{3}		HSDB (2015)	Q	216
1-propoxy-2-propanol $\mathrm{C_6H_{14}O_2}$ [1569-01-3]	2.9×10^{2}		HSDB (2015)	Q	216
2-(2-ethoxyethoxy)ethanol $\mathrm{C_6H_{14}O_3}$ (diethylene glycol monoethyl ether) [111-90-0]	4.5×10^{2}		HSDB (2015)	V	
2,5,8-trioxanonane $\mathrm{C_6H_{14}O_3}$ (diglyme) [111-96-6]	1.9×10^{1}		HSDB (2015)	V	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
oxydipropanol $C_6H_{14}O_3$ (dipropylene glycol) [25265-71-8]	1.8×10^{3}		HSDB (2015)	V	
p-benzoquinone $C_6H_4O_2$ (1,4-benzoquinone) [106-51-4]	2.1×10^{-2}		HSDB (2015)	V	
5-hydroxymethylfurfural $C_6H_6O_3$ (5-hydroxymethyl-2-furfuraldehyde) [67-47-0]	1.8×10^{4}		HSDB (2015)	Q	38
5-hydroxy-2-(hydroxymethyl)-4H-pyran-4-one $C_6H_6O_4$ (kojic acid) [501-30-4]	4.1×10^{1}		HSDB (2015)	Q	38
2-hydroxy-1,2,3-propanetricarboxylic acid $C_6H_8O_7$ (citric acid) [77-92-9]	 3.0×10^{16}		Compernolle and Müller (2014a) Saxena and Hildemann (1996)	V E	217 158
(butoxymethyl)oxirane $C_7H_{14}O_2$ (n-butyl glycidyl ether) [2426-08-6]	3.9×10^{-1}		HSDB (2015)	V	
1-(1,1-dimethylethoxy)-2-propanol $C_7H_{16}O_2$ (propylene glycol mono-t-butyl ether) [57018-52-7]	2.1		HSDB (2015)	V	
2-[2-(2-methoxyethoxy)ethoxy]ethanol $C_7H_{16}O_4$ (triethylene glycol monomethyl ether) [112-35-6]	2.8×10^{8}		HSDB (2015)	Q	38
2-methylp-benzoquinone $C_7H_6O_2$ [553-97-9]	5.2×10^{3}		HSDB (2015)	Q	38
patulin $C_7H_6O_4$ [149-29-1]	9.0×10^{4}		HSDB (2015)	Q	38
1-hydroxy-3-methoxybenzene $C_7H_8O_2$ (3-methoxyphenol) [150-19-6]	1.7×10^{2} 1.3×10^{2} 5.0×10^{2}		Abraham et al. (1994a) Hilal et al. (2008) Nirmalakhandan et al. (1997)	R Q Q	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
mequinol $C_7H_8O_2$ (4-methoxyphenol) [150-76-5]	1.9×10^{1}		HSDB (2015)	Q	38
1-hydroxy-2-methoxybenzene $C_7H_8O_2$ (guaicol; 2-methoxyphenol) [90-05-1]	7.7		Sagebiel et al. (1992)	M	
	9.1	7600	Sagebiel et al. (1992)	M	
	9.6		Mackay et al. (2006c)	V	
	7.7		Sagebiel et al. (1992)	V	
	4.1×10^{1}		Leuenberger et al. (1985)	V	167
	5.0		Abraham et al. (1994a)	R	
	5.2		Hilal et al. (2008)	Q	
		6700	Kühne et al. (2005)	Q	
	5.1×10^{2}		Nirmalakhandan et al. (1997)	Q	
		7800	Kühne et al. (2005)	?	
1,4-dimethoxybenzene $C_8H_{10}O_2$ (hydroquinone dimethyl ether) [150-78-7]	2.8×10^{-3}		HSDB (2015)	Q	38
4-methyl-2-methoxyphenol $C_8H_{10}O_2$ [93-51-6]	7.7		Sagebiel et al. (1992)	M	
	7.1	7400	Sagebiel et al. (1992)	M	
	1.0×10^{1}		Sagebiel et al. (1992)	V	
	5.2		Hilal et al. (2008)	Q	
		7100	Kühne et al. (2005)	Q	
		7900	Kühne et al. (2005)	?	
1,3-dimethoxy-2-hydroxybenzene $C_8H_{10}O_3$ (2,6-dimethoxyphenol) [91-10-1]	3.7×10^{1}		Sagebiel et al. (1992)	M	
	5.0×10^{1}	6700	Sagebiel et al. (1992)	M	
	1.2×10^{2}		Sagebiel et al. (1992)	V	
	3.5×10^{2}		Hilal et al. (2008)	Q	
		7300	Kühne et al. (2005)	Q	
		7600	Kühne et al. (2005)	?	
hexahydro-1,3-isobenzofurandione $C_8H_{10}O_3$ (hexahydrophthalic anhydride) [85-42-7]	4.7×10^{-1}		HSDB (2015)	Q	38
1-methoxy-4-methylbenzene $C_8H_{10}O$ [104-93-8]	2.1×10^{-3}		HSDB (2015)	Q	38
dimethoxane $C_8H_{14}O_4$ [828-00-2]	8.0×10^{1}		HSDB (2015)	Q	38
metaldehyde $C_8H_{16}O_4$ [108-62-3]	1.9×10^{-1}		HSDB (2015)	V	
diethyl carbitol $C_8H_{18}O_3$ (diethylene glycol diethyl ether) [112-36-7]	9.0×10^{1}		HSDB (2015)	V	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2-[2-(2-ethoxyethoxy)ethoxy]ethanol $C_8H_{18}O_4$ (triethylene glycol monoethyl ether) [112-50-5]	2.1×10^{8}		HSDB (2015)	Q	38
tetraethylene glycol $C_8H_{18}O_5$ [112-60-7]	1.8×10^{13}		HSDB (2015)	Q	38
vanillin $C_8H_8O_3$ [121-33-5]	4.7×10^{3}		HSDB (2015)	V	
ethylparaben $C_9H_{10}O_3$ [120-47-8]	2.1×10^{3}		HSDB (2015)	Q	38
ethyl vanillin $C_9H_{10}O_3$ [121-32-4]	1.2×10^{4}		HSDB (2015)	V	
1-phenoxypropan-2-ol $C_9H_{12}O_2$ (propylene glycol phenyl ether) [770-35-4]	3.4×10^{2}		HSDB (2015)	V	
triacetin $C_9H_{14}O_6$ [102-76-1]	8.2×10^{2}		HSDB (2015)	V	
tripropylene glycol $C_9H_{20}O_4$ [24800-44-0]	3.0×10^{9}		HSDB (2015)	Q	38
coumarin $C_9H_6O_2$ [91-64-5]	1.0×10^{2}		HSDB (2015)	V	
5-(1-propenyl)-1,3-benzodioxole $C_{10}H_{10}O_2$ (isosafrole) [120-58-1]	2.7×10^{-4}		HSDB (2015)	Q	38
safrole $C_{10}H_{10}O_2$ [94-59-7]	1.1		HSDB (2015)	Q	38
5-propyl-1,3-benzodioxole $C_{10}H_{12}O_2$ (dihydrosafrole) [94-58-6]	8.2×10^{-1}		HSDB (2015)	Q	38
2-methoxy-4-(1-propenyl)phenol $C_{10}H_{12}O_2$ (isoeugenol) [97-54-1]	2.7		HSDB (2015)	V	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
p-cresyl glycidyl ether $C_{10}H_{12}O_2$ [26447-14-3]	1.3×10^{1}		HSDB (2015)	Q	38
4-(4-hydroxyphenyl)-2-butanone $C_{10}H_{12}O_2$ (raspberry ketone) [5471-51-2]	1.8×10^{4}		HSDB (2015)	Q	182
guaifenesin $C_{10}H_{14}O_4$ [93-14-1]	2.2×10^{5}		HSDB (2015)	Q	38
levomenthol $C_{10}H_{20}O$ (*L*-menthol) [2216-51-5]	6.6×10^{-1}		HSDB (2015)	Q	38
diethylene glycol hexyl ether $C_{10}H_{22}O_3$ [112-59-4]	5.8×10^{2}		HSDB (2015)	V	
2-[2-(2-butoxyethoxy)ethoxy]ethanol $C_{10}H_{22}O_4$ (triethylene glycol monobutyl ether) [143-22-6]	1.0×10^{8}		HSDB (2015)	Q	38
4-methoxy-6-(2-propenyl)-1,3-benzodioxole $C_{11}H_{12}O_3$ (myristicin) [607-91-0]	1.8×10^{1}		HSDB (2015)	Q	38
butylparaben $C_{11}H_{14}O_3$ [94-26-8]	1.2×10^{3}		HSDB (2015)	Q	38
2-*tert*-butyl-4-methoxyphenol $C_{11}H_{16}O_2$ (butylated hydroxyanisole) [25013-16-5]	8.4		HSDB (2015)	Q	38
3-hydroxy-2-naphthalenecarboxylic acid $C_{11}H_8O_3$ [92-70-6]	7.0×10^{3}		HSDB (2015)	Q	38
	7.2×10^{3}		Zhang et al. (2010)	Q	107, 108
	1.2×10^{4}		Zhang et al. (2010)	Q	107, 109
	3.8×10^{5}		Zhang et al. (2010)	Q	107, 110
	8.2×10^{3}		Zhang et al. (2010)	Q	107, 111
arbutin $C_{12}H_{16}O_7$ [497-76-7]	8.2×10^{13}		HSDB (2015)	Q	38
butopyronoxyl $C_{12}H_{18}O_4$ (indalone) [532-34-3]	2.1×10^{2}		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
diethylene glycol bis(methacrylate) $C_{12}H_{18}O_5$ [2358-84-1]	1.2×10^{4}		HSDB (2015)	Q	38
dikegulac $C_{12}H_{18}O_7$ [18467-77-1]	5.2×10^{10}		HSDB (2015)	Q	38
propofol $C_{12}H_{18}O$ [2078-54-8]	4.7		HSDB (2015)	Q	38
lactitol $C_{12}H_{24}O_{11}$ [585-86-4]	1.2×10^{16}		HSDB (2015)	Q	38
maltitol $C_{12}H_{24}O_{11}$ [585-88-6]	2.3×10^{15}		HSDB (2015)	Q	38
naphthalic anhydride $C_{12}H_6O_3$ [81-84-5]	1.6×10^{1}		HSDB (2015)	Q	38
methoxsalen $C_{12}H_8O_4$ (8-methoxypsoralen) [298-81-7]	2.5×10^{2}		HSDB (2015)	Q	38
bisphenol F $C_{13}H_{12}O_2$ [620-92-8]	1.9×10^{6}		HSDB (2015)	Q	182
ibuprofen $C_{13}H_{18}O_2$ [15687-27-1]	6.6×10^{1}		HSDB (2015)	V	
benzoyl peroxide $C_{14}H_{10}O_4$ [94-36-0]	2.8 2.8 1.1×10^{2} 4.1×10^{2} 4.3×10^{3}		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q Q	38 107, 108 107, 109 107, 110 107, 111
oxybenzone $C_{14}H_{12}O_3$ (2-hydroxy-4-methoxybenzophenone) [131-57-7]	6.6×10^{2}		HSDB (2015)	Q	38
resveratrol $C_{14}H_{12}O_3$ [501-36-0]	7.0×10^{10}		HSDB (2015)	Q	182
pindone $C_{14}H_{14}O_3$ [83-26-1]	1.1×10^{6}		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1,1'-[oxybis(methylene)]bisbenzene $C_{14}H_{14}O$ (dibenzyl ether) [103-50-4]	1.2×10^{2}		HSDB (2015)	Q	38
butanoic acid, 3,3-bis((1,1-dimethylethyl)dioxy)-, ethyl ester $C_{14}H_{28}O_6$ [55794-20-2]	5.0 7.0×10^{-3} 1.3×10^{2} 2.4×10^{2}		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
1-hydroxy-9,10-anthracenedione $C_{14}H_8O_3$ (1-hydroxyanthraquinone) [129-43-1]	1.4×10^{3}		HSDB (2015)	V	
danthron $C_{14}H_8O_4$ (1,8-dihydroxyanthraquinone) [117-10-2]	1.8×10^{5}		HSDB (2015)	Q	38
bisphenol A $C_{15}H_{16}O_2$ [80-05-7]	2.5×10^{5}		HSDB (2015)	V	
atractylenolide III $C_{15}H_{20}O_3$ [73030-71-4]	1.0×10^{3}		HSDB (2015)	Q	38
deoxynivalenol $C_{15}H_{20}O_6$ [51481-10-8]	4.9×10^{8}		HSDB (2015)	Q	182
nivalenol $C_{15}H_{20}O_7$ [23282-20-4]	1.4×10^{10}		HSDB (2015)	Q	38
tributyrin $C_{15}H_{26}O_6$ [60-01-5]	1.0×10^{3}		HSDB (2015)	Q	38
diosmetin $C_{16}H_{12}O_6$ [520-34-3]	3.3×10^{12}		HSDB (2015)	Q	182
shikonin $C_{16}H_{16}O_5$ [517-89-5]	1.2×10^{9}		HSDB (2015)	Q	182
2,2-bis(4-hydroxyphenyl)butane $C_{16}H_{18}O_2$ (bisphenol B) [77-40-7]	8.2×10^{5}		HSDB (2015)	Q	182

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
ethyl 3,3-bis(*tert*-amylperoxy)butyrate	2.9		Zhang et al. (2010)	Q	107, 108
$C_{16}H_{32}O_6$	3.7×10^{-3}		Zhang et al. (2010)	Q	107, 109
[67567-23-1]	3.0×10^{1}		Zhang et al. (2010)	Q	107, 110
	1.5×10^{2}		Zhang et al. (2010)	Q	107, 111
aflatoxin B1 $C_{17}H_{12}O_6$ [1162-65-8]	7.0×10^{7}		HSDB (2015)	Q	38
aflatoxin G1 $C_{17}H_{12}O_7$ [1165-39-5]	2.0×10^{7}		HSDB (2015)	Q	38
aflatoxin B2 $C_{17}H_{14}O_6$ [7220-81-7]	3.3×10^{9}		HSDB (2015)	Q	38
aflatoxin G2 $C_{17}H_{14}O_7$ [7241-98-7]	9.0×10^{8}		HSDB (2015)	Q	38
bisphenol C $C_{17}H_{20}O_2$ [79-97-0]	9.0×10^{5}		HSDB (2015)	Q	182
PR-toxin $C_{17}H_{20}O_6$ [56299-00-4]	1.6×10^{8}		HSDB (2015)	Q	38
fusarenon X $C_{17}H_{22}O_8$ [23255-69-8]	2.1×10^{11}		HSDB (2015)	Q	38
dihydrotanshinone I $C_{18}H_{14}O_3$ [87205-99-0]	7.6×10^{4}		HSDB (2015)	Q	38
diethylstilbestrol $C_{18}H_{20}O_2$ [56-53-1]	1.7×10^{2}		HSDB (2015)	Q	38
estrone $C_{18}H_{22}O_2$ [53-16-7]	2.6×10^{4}		HSDB (2015)	Q	38
estradiol $C_{18}H_{24}O_2$ [50-28-2]	2.7×10^{5}		HSDB (2015)	Q	38
estriol $C_{18}H_{24}O_3$ [50-27-1]	7.6×10^{6}		HSDB (2015)	Q	38
nandrolone $C_{18}H_{26}O_2$ [434-22-0]	3.7×10^{3}		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
diofenolan $C_{18}H_{20}O_4$ [63837-33-2]	1.5×10^{2}		MacBean (2012a)	?	
dicumarol $C_{19}H_{12}O_6$ [66-76-2]	7.0×10^{7}		HSDB (2015)	Q	38
coumatetralyl $C_{19}H_{16}O_3$ [5836-29-3]	1.7×10^{8}		HSDB (2015)	V	
warfarin $C_{19}H_{16}O_4$ [81-81-2]	3.7×10^{4} 3.6×10^{2}		HSDB (2015) Mackay et al. (2006d)	V V	
tanshinone II $C_{19}H_{18}O_3$ [568-72-9]	2.0×10^{3}		HSDB (2015)	Q	38
gibberellic acid $C_{19}H_{22}O_6$ [77-06-5]	6.2×10^{9}		HSDB (2015)	Q	38
prallethrin $C_{19}H_{24}O_3$ [23031-36-9]	6.2		HSDB (2015)	V	
testolactone $C_{19}H_{24}O_3$ [968-93-4]	1.6×10^{2}		HSDB (2015)	Q	38
androstenedione $C_{19}H_{26}O_2$ [63-05-8]	2.7×10^{2}		HSDB (2015)	Q	38
diacetoxyscirpenol $C_{19}H_{26}O_7$ [2270-40-8]	1.0×10^{11}		HSDB (2015)	Q	182
testosterone $C_{19}H_{28}O_2$ [58-22-0]	2.8×10^{3}		HSDB (2015)	Q	38
5α-androst-16-en-4-one $C_{19}H_{28}O$ (androstenone) [18339-16-7]	3.4×10^{-2}		Amoore and Buttery (1978)	M	
oxandrolone $C_{19}H_{30}O_3$ [53-39-4]	4.3×10^{2}		HSDB (2015)	Q	38
piperonyl butoxide $C_{19}H_{30}O_5$ [51-03-6]	1.1×10^{5}		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
methoprene $C_{19}H_{34}O_3$ [40596-69-8]	1.4		HSDB (2015)	V	
fluorescein $C_{20}H_{12}O_5$ [2321-07-5]	1.1×10^{11}		HSDB (2015)	Q	38
phenolphthalein $C_{20}H_{14}O_4$ [77-09-8]	1.1×10^{10}		HSDB (2015)	Q	38
avobenzone $C_{20}H_{22}O_3$ [70356-09-1]	4.9×10^{4}		HSDB (2015)	Q	182
ethinyl estradiol $C_{20}H_{24}O_2$ [57-63-6]	1.2×10^{6}		HSDB (2015)	Q	38
norethynodrel $C_{20}H_{26}O_2$ [68-23-5]	7.6×10^{3}		HSDB (2015)	Q	38
norethindrone $C_{20}H_{26}O$ [68-22-4]	1.7×10^{4}		HSDB (2015)	Q	38
methandrostenolone $C_{20}H_{28}O_2$ [72-63-9]	4.5×10^{3}		HSDB (2015)	Q	38
cinerin I $C_{20}H_{28}O_3$ [25402-06-6]	1.0×10^{1}		HSDB (2015)	Q	38
17-methyltestosterone $C_{20}H_{30}O_2$ [58-18-4]	2.1×10^{3}		HSDB (2015)	Q	38
drostanolone $C_{20}H_{32}O_2$ (dromostanolone) [58-19-5]	1.2×10^{3}		HSDB (2015)	Q	38
curcumin $C_{21}H_{20}O_6$ [458-37-7]	1.4×10^{16}		HSDB (2015)	Q	38
bisphenol A diglycidyl ether $C_{21}H_{24}O_4$ [1675-54-3]	2.2×10^{5}		HSDB (2015)	Q	38
mestranol $C_{21}H_{26}O_2$ [72-33-3]	2.2×10^{3}		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
prednisone $C_{21}H_{26}O_5$ [53-03-2]	3.5×10^{4}		HSDB (2015)	Q	38
norgestrel $C_{21}H_{28}O_2$ [6533-00-2]	1.3×10^{4}		HSDB (2015)	Q	38
levonorgestrel $C_{21}H_{28}O_2$ [797-63-7]	1.3×10^{4}		HSDB (2015)	Q	38
pyrethrin I $C_{21}H_{28}O_3$ [121-21-1]	2.2×10^{-1}		HSDB (2015)	V	
cinerin II $C_{21}H_{28}O_5$ [121-20-0]	1.1×10^{4}		HSDB (2015)	Q	38
prednisolone $C_{21}H_{28}O_5$ [50-24-8]	3.7×10^{2}		HSDB (2015)	Q	38
dronabinol $C_{21}H_{30}O_2$ (delta 9-tetrahydrocannabinol) [1972-08-3]	4.1×10^{1}		HSDB (2015)	Q	38
progesterone $C_{21}H_{30}O_2$ [57-83-0]	1.5×10^{2}		HSDB (2015)	Q	38
hydrocortisone $C_{21}H_{30}O_5$ [50-23-7]	1.7×10^{2}		HSDB (2015)	Q	38
calusterone $C_{21}H_{32}O_2$ [17021-26-0]	1.6×10^{3}		HSDB (2015)	Q	38
oxymetholone $C_{21}H_{32}O_3$ [434-07-1]	6.6×10^{3}		HSDB (2015)	Q	38
resmethrin $C_{22}H_{26}O_3$ [10453-86-8]	7.6×10^{1}		HSDB (2015)	V	
pyrethrin II $C_{22}H_{28}O_5$ [121-29-9]	4.5×10^{2}		HSDB (2015)	V	
methylprednisolone $C_{22}H_{30}O_5$ [83-43-2]	2.7×10^{2}		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
medroxyprogesterone $C_{22}H_{32}O_3$ [520-85-4]	7.6×10^{2}		HSDB (2015)	Q	38
dimethirimol $C_{23}H_{24}O_5$ [5221-53-4]	$>2.3\times10^{10}$		MacBean (2012a)	?	
rotenone $C_{23}H_{22}O_6$ [83-79-4]	8.8×10^{7}		HSDB (2015)	Q	38
phenothrin $C_{23}H_{26}O_3$ [26002-80-2]	1.5		MacBean (2012b)	X	137
spiromesifen $C_{23}H_{30}O_4$ [283594-90-1]	1.8×10^{-2}		HSDB (2015)	V	
digoxigenin $C_{23}H_{34}O_5$ [1672-46-4]	4.3×10^{5}		HSDB (2015)	Q	38
annatto $C_{24}H_{28}O_4$ [1393-63-1]	1.5×10^{11}		HSDB (2015)	Q	38
acequinocyl $C_{24}H_{32}O_4$ [57960-19-7]	1.0×10^{1}		HSDB (2015)	V	
T-2 mycotoxin $C_{24}H_{34}O_9$ [21259-20-1]	1.8×10^{12}		HSDB (2015)	Q	38
milk thistle extract $C_{25}H_{22}O_{10}$ [84604-20-6]	6.2×10^{17}		HSDB (2015)	Q	38
simvastatin $C_{25}H_{38}O_5$ [79902-63-9]	3.5×10^{4}		HSDB (2015)	Q	38
calcitriol $C_{27}H_{44}O_3$ (1,25-dihydroxycholecalciferol) [32222-06-3]	3.2×10^{1}		HSDB (2015)	Q	38
paricalcitol $C_{27}H_{44}O_3$ [131918-61-1]	2.6×10^{1}		HSDB (2015)	Q	38
cholecalciferol $C_{27}H_{44}O$ [67-97-0]	4.3×10^{-2}		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
cholesterol $C_{27}H_{46}O$ [57-88-5]	5.8×10^{-2}		HSDB (2015)	Q	38
ergosterol $C_{28}H_{44}O$ [57-87-4]	6.2×10^{-2}		HSDB (2015)	Q	38
dihydrotachysterol $C_{28}H_{46}O$ [67-96-9]	2.7×10^{-2}		HSDB (2015)	Q	38
etoposide $C_{29}H_{32}O_{13}$ [33419-42-0]	5.8×10^{24}		HSDB (2015)	Q	38
stigmasterol $C_{29}H_{48}O$ [83-48-7]	3.8×10^{-2}		HSDB (2015)	Q	38
pseudohypericin $C_{30}H_{16}O_9$ [55954-61-5]	5.5×10^{23}		HSDB (2015)	Q	38
gossypol $C_{30}H_{30}O_8$ [303-45-7]	4.3×10^{22}		HSDB (2015)	Q	38
maslinic acid $C_{30}H_{48}O_4$ [4373-41-5]	2.8×10^{5}		HSDB (2015)	Q	182
difenacoum $C_{31}H_{24}O_3$ [56073-07-5]	7.0×10^{6}		HSDB (2015)	Q	182
nonoxynol 9 $C_{33}H_{60}O_{10}$ [26571-11-9]	1.8×10^{16}		HSDB (2015)	Q	38
azadirachtin $C_{35}H_{44}O_{16}$ [11141-17-6]	3.5×10^{19}		HSDB (2015)	V	
monensin $C_{36}H_{62}O_{11}$ [17090-79-8]	4.9×10^{18}		HSDB (2015)	Q	38
gossyplure $C_{36}H_{64}O_4$ [50933-33-0]	6.6×10^{-2}		HSDB (2015)	V	
capsanthin $C_{40}H_{56}O_3$ [465-42-9]	3.4×10^{2}		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
digitoxin $C_{41}H_{64}O_{13}$ [71-63-6]	7.6×10^{19}		HSDB (2015)	Q	38
digoxin $C_{41}H_{64}O_{14}$ [20830-75-5]	2.1×10^{21}		HSDB (2015)	Q	38
pyrethrum $C_{43}H_{56}O_8$ [8003-34-7]	1.5×10^{1}		HSDB (2015)	Q	38
punicalagin $C_{48}H_{28}O_{30}$ [65995-63-3]	5.5×10^{10}		HSDB (2015)	Q	38
abamectin $C_{48}H_{72}O_{14}$ [71751-41-2]	7.0×10^{3}		HSDB (2015)	V	
notoginsenoside R1 $C_{48}H_{84}O_{18}$ [80418-24-2]	6.6×10^{25}		HSDB (2015)	Q	38
triolein $C_{57}H_{104}O_6$ [122-32-7]	1.0×10^{-2}		HSDB (2015)	Q	182
tristearin $C_{57}H_{110}O_6$ [555-43-1]	7.0×10^{-3}		HSDB (2015)	Q	38
Organic species with nitrogen (N)					
Amines (C, H, N)					
cyanamide CH_2N_2 [420-04-2]	3.7×10^{4}		HSDB (2015)	V	
methylhydrazine CH_6N_2 [60-34-4]	3.3		HSDB (2015)	V	
methanamine CH_3NH_2 (methylamine) [74-89-5]	3.5×10^{-1}	2600	Wilhelm et al. (1977)	L	
	8.9×10^{-1}		Christie and Crisp (1967)	M	
	1.2		Hilal et al. (2008)	Q	
		5000	Kühne et al. (2005)	Q	
	5.6×10^{-1}		Nirmalakhandan et al. (1997)	Q	
	8.9×10^{-1}		Mackay et al. (2006d)	?	
		3200	Kühne et al. (2005)	?	
	8.8×10^{-1}		Abraham et al. (1990)	?	
		5400	Abraham (1984)	?	7
	1.4		Bone et al. (1983)	?	21

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
ethanamine	3.5×10^{-1}	3600	Wilhelm et al. (1977)	L	
$C_2H_5NH_2$	8.0×10^{-1}		Christie and Crisp (1967)	M	
(ethylamine)	9.9×10^{-1}		Butler and Ramchandani (1935)	M	
[75-04-7]	3.0×10^{-1}		Hwang et al. (1992)	V	
	7.9×10^{-1}		Hilal et al. (2008)	Q	
	4.6×10^{-1}		Nirmalakhandan et al. (1997)	Q	
	9.9×10^{-1}		Mackay et al. (2006d)	?	
	8.0×10^{-1}		Abraham et al. (1990)	?	
		6500	Abraham (1984)	?	7
1H-1,2,4-triazole $C_2H_3N_3$ [288-88-0]	6.6		HSDB (2015)	Q	38
dicyandiamide $C_2H_4N_4$ (cyanoguanidine) [461-58-5]	4.3×10^{4}		HSDB (2015)	Q	38
ethylenimine C_2H_5N [151-56-4]	8.2×10^{-1}		HSDB (2015)	V	
1,2-dimethylhydrazine $C_2H_8N_2$ [540-73-8]	1.8		HSDB (2015)	V	
1,1-dimethylhydrazine $C_2H_8N_2$ [57-14-7]	7.6×10^{-1}		HSDB (2015)	V	
1-propanamine	5.0×10^{-1}		Altschuh et al. (1999)	M	
$C_3H_7NH_2$	6.6×10^{-1}		Christie and Crisp (1967)	M	
(1-propylamine)	7.8×10^{-1}		Butler and Ramchandani (1935)	M	
[107-10-8]	4.8×10^{-1}		Hilal et al. (2008)	Q	
	3.6×10^{-1}		Nirmalakhandan et al. (1997)	Q	
	7.8×10^{-1}		Mackay et al. (2006d)	?	
	6.7×10^{-1}		Abraham et al. (1990)	?	
		6700	Abraham (1984)	?	7
2-propanamine	2.2×10^{-1}		Hilal et al. (2008)	C	
C_3H_9N	2.1×10^{-1}		Hilal et al. (2008)	Q	
[75-31-0]					
propanedinitrile $C_3H_2N_2$ (malononitrile) [109-77-3]	7.8×10^{2}		HSDB (2015)	Q	38
1-butanamine	5.6×10^{-1}		Altschuh et al. (1999)	M	
$C_4H_9NH_2$	5.2×10^{-1}		Rytting et al. (1978)	M	
(1-butylamine)	5.6×10^{-1}		Christie and Crisp (1967)	M	
[109-73-9]	6.5×10^{-1}		Butler and Ramchandani (1935)	M	
	2.2×10^{-1}		Hwang et al. (1992)	V	
	4.5×10^{-1}		Amoore and Buttery (1978)	V	
	2.9×10^{-1}		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	2.8×10^{-1}		Nirmalakhandan et al. (1997)	Q	
	6.6×10^{-1}		Mackay et al. (2006d)	?	
	5.2×10^{-1}		Abraham et al. (1990)	?	
		7100	Abraham (1984)	?	7
2-butanamine $C_4H_{11}N$ [13952-84-6]	4.0×10^{-1}	7700	Kish et al. (2013)	M	218
	6.5×10^{-2}		Hilal et al. (2008)	C	
	1.6×10^{-1}		Hilal et al. (2008)	Q	
2-methyl-1-propanamine $C_4H_{11}N$ [78-81-9]	7.2×10^{-1}		Hilal et al. (2008)	C	
	2.4×10^{-1}		Hilal et al. (2008)	Q	
2-methyl-2-propanamine $C_4H_{11}N$ [75-64-9]	2.8×10^{-1}		Hilal et al. (2008)	C	
	5.0×10^{-2}		Hilal et al. (2008)	Q	
1,2-diethylhydrazine $C_4H_{12}N_2$ [1615-80-1]	8.2×10^{1}		HSDB (2015)	Q	38
N-(2-aminoethyl)-1,2-ethanediamine $C_4H_{13}N_3$ (diethylenetriamine) [111-40-0]	9.9×10^{8}		HSDB (2015)	Q	38
butanedinitrile $C_4H_4N_2$ [110-61-2]	1.5×10^{3}		HSDB (2015)	V	
2-methyl-1H-imidazole $C_4H_6N_2$ [693-98-1]	2.2		HSDB (2015)	Q	38
4-methyl-1H-imidazole $C_4H_6N_2$ [822-36-6]	2.4		HSDB (2015)	Q	38
1-pentanamine $C_5H_{11}NH_2$ (1-pentylamine) [110-58-7]	4.0×10^{-1}		Rytting et al. (1978)	M	
	3.1×10^{-1}		Amoore and Buttery (1978)	M	
	4.0×10^{-1}		Christie and Crisp (1967)	M	
	1.6×10^{-1}		Hilal et al. (2008)	Q	
	2.2×10^{-1}		Nirmalakhandan et al. (1997)	Q	
	4.0×10^{-1}		Abraham et al. (1990)	?	
		7500	Abraham (1984)	?	7
3-methyl-1-butanamine $C_5H_{13}N$ [107-85-7]	2.2×10^{-1}		Hilal et al. (2008)	Q	
1-hexanamine $C_6H_{13}NH_2$ (1-hexylamine) [111-26-2]	3.2×10^{-1}		Rytting et al. (1978)	M	
	3.7×10^{-1}		Christie and Crisp (1967)	M	
	3.7×10^{-1}		Hilal et al. (2008)	Q	
	1.8×10^{-1}		Nirmalakhandan et al. (1997)	Q	
	3.2×10^{-1}		Abraham et al. (1990)	?	
		7900	Abraham (1984)	?	7

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1,6-hexanediamine $C_6H_{16}N_2$ (hexamethylene diamine) [124-09-4]	3.1×10^{3}		HSDB (2015)	Q	38
N,N'-methanetetraylbis-2-propanamine $C_7H_{14}N_2$ (1,3-diisopropylcarbodiimide) [693-13-0]	9.9×10^{-3}		HSDB (2015)	Q	182
4-methyl-2-hexanamine $C_7H_{17}N$ [105-41-9]	2.3×10^{-1}		HSDB (2015)	Q	182
1-heptanamine $C_7H_{17}N$ (1-heptylamine) [111-68-2]	2.4×10^{-1}		Rytting et al. (1978)	M	
	4.5×10^{-1}		Hilal et al. (2008)	Q	
	1.4×10^{-1}		Nirmalakhandan et al. (1997)	Q	
	2.4×10^{-1}		Abraham et al. (1990)	?	
1-octanamine C_8H19N (1-octylamine) [111-86-4]	1.9×10^{-1}		Rytting et al. (1978)	M	
	4.3×10^{-1}		Hilal et al. (2008)	Q	
		7400	Kühne et al. (2005)	Q	
	1.1×10^{-1}		Nirmalakhandan et al. (1997)	Q	
		6600	Kühne et al. (2005)	?	
	1.9×10^{-1}		Abraham et al. (1990)	?	
2-ethyl-1-hexanamine $C_8H_{19}N$ (2-ethylhexylamine) [104-75-6]	3.7×10^{-1}		Hilal et al. (2008)	Q	
		7400	Kühne et al. (2005)	Q	
		7400	Kühne et al. (2005)	?	
1-tridecanamine $C_{13}H_{29}N$ [2869-34-3]	9.0×10^{-2}		Altschuh et al. (1999)	M	
dimethylamine $(CH_3)_2NH$ [124-40-3]	3.0×10^{-1}	4000	Wilhelm et al. (1977)	L	
	5.6×10^{-1}		Christie and Crisp (1967)	M	
	5.8×10^{-1}	6400	Bagno et al. (1991)	T	196
	6.0×10^{-1}		Hilal et al. (2008)	Q	
	5.4×10^{-1}		Nirmalakhandan et al. (1997)	Q	
	5.6×10^{-1}		Mackay et al. (2006d)	?	
	5.7×10^{-1}		Abraham et al. (1990)	?	
diethylamine $(C_2H_5)_2NH$ [109-89-7]	3.9×10^{-1}		Christie and Crisp (1967)	M	
	4.1×10^{-1}	7700	Bagno et al. (1991)	T	196
	1.3	10000	Goldstein (1982)	X	116
	1.8×10^{-1}		Hilal et al. (2008)	Q	
	3.8×10^{-1}		Mackay et al. (2006d)	?	
	1.5×10^{-1}		Yaws and Yang (1992)	?	92
	3.9×10^{-1}		Abraham et al. (1990)	?	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
dipropylamine	1.9×10^{-1}		Christie and Crisp (1967)	M	
$(C_3H_7)_2NH$	1.1×10^{-1}		Hilal et al. (2008)	Q	
[142-84-7]		6900	Kühne et al. (2005)	Q	
	2.3×10^{-1}		Nirmalakhandan et al. (1997)	Q	
		8100	Kühne et al. (2005)	?	
	1.9×10^{-1}		Abraham et al. (1990)	?	
			Betterton (1992)	W	219
N-methylpropanamine	1.9×10^{-1}		Hilal et al. (2008)	Q	
$C_4H_{11}N$					
[627-35-0]					
N-methyl-2-propanamine	1.4×10^{-1}		Hilal et al. (2008)	Q	
$C_4H_{11}N$					
[4747-21-1]					
N-(1-methylethyl)-2-propanamine	6.2×10^{-2}		Hilal et al. (2008)	Q	
$C_6H_{15}N$		6900	Kühne et al. (2005)	Q	
(diisopropylamine)	1.8×10^{-1}		Nirmalakhandan et al. (1997)	Q	
[108-18-9]		8600	Kühne et al. (2005)	?	
	9.2×10^{-2}		Abraham et al. (1990)	?	
N,N-dipropyl-1-propanamine	2.6×10^{-2}		HSDB (2015)	V	
$C_9H_{21}N$	2.6×10^{-2}		Hilal et al. (2008)	C	
[102-69-2]	6.7×10^{-2}		Hilal et al. (2008)	Q	
N-methyl-1-butanamine	1.1×10^{-1}		Hilal et al. (2008)	Q	
$C_5H_{13}N$		6600	Kühne et al. (2005)	Q	
(N-methylbutylamine)		5000	Kühne et al. (2005)	?	
[110-68-9]					
dibutylamine	1.0		Altschuh et al. (1999)	M	
$(C_4H_9)_2NH$	1.1×10^{-1}		Christie and Crisp (1967)	M	
[111-92-2]	1.2×10^{-1}		Mackay et al. (2006d)	V	
	1.2×10^{-1}		Mackay et al. (1995)	V	
	2.4×10^{-1}		Hilal et al. (2008)	Q	
		7600	Kühne et al. (2005)	Q	
	1.4×10^{-1}		Nirmalakhandan et al. (1997)	Q	
		7400	Kühne et al. (2005)	?	
	9.7×10^{-2}		Abraham et al. (1990)	?	
diisobutylamine		7600	Kühne et al. (2005)	Q	
$C_8H_{19}N$		7300	Kühne et al. (2005)	?	
[110-96-3]					
bis-(1-methylpropyl)-amine		7600	Kühne et al. (2005)	Q	
$C_8H_{19}N$		7000	Kühne et al. (2005)	?	
(di-*sec*-butylamine)					
[626-23-3]					
tetraethylenepentamine	3.3×10^{14}		HSDB (2015)	Q	38
$C_8H_{23}N_5$					
[112-57-2]					

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
N,N-di-2-propenyl-2-propen-1-amine	3.8×10^{-2}		HSDB (2015)	V	
$C_9H_{15}N$					
(triallylamine)					
[102-70-5]					
trimethylamine	7.6×10^{-2}		Amoore and Buttery (1978)	M	
$(CH_3)_3N$	9.5×10^{-2}		Christie and Crisp (1967)	M	
[75-50-3]	9.8×10^{-2}		Amoore and Buttery (1978)	V	
	3.7×10^{-2}		Hilal et al. (2008)	Q	
	4.7×10^{-1}		Nirmalakhandan et al. (1997)	Q	
	1.5×10^{-1}		Mackay et al. (2006d)	?	
	9.0×10^{-2}		Abraham et al. (1990)	?	
triethylamine	6.6×10^{-2}		Christie and Crisp (1967)	M	
$(C_2H_5)_3N$	7.1×10^{-2}		Mackay et al. (2006d)	V	
[121-44-8]	7.1×10^{-2}		Mackay et al. (1995)	V	
	8.6×10^{-2}		Hilal et al. (2008)	Q	
		6700	Kühne et al. (2005)	Q	
	3.3×10^{-1}		Nirmalakhandan et al. (1997)	Q	
		9000	Kühne et al. (2005)	?	
	9.2×10^{-2}		Abraham et al. (1990)	?	
tributylamine	4.0×10^{-1}		Altschuh et al. (1999)	M	
$C_{12}H_{27}N$	4.0×10^{-5}		Mackay et al. (2006d)	V	
[102-82-9]	4.0×10^{-5}		Mackay et al. (1995)	V	
		8700	Kühne et al. (2005)	Q	
		7500	Kühne et al. (2005)	?	
N,N-dimethyl-1-dodecanamine	>4.0		Altschuh et al. (1999)	M	
$C_{14}H_{31}N$	2.0×10^{-3}		HSDB (2015)	Q	38
[112-18-5]					
ethylenediamine	5.8×10^{3}		Westheimer and Ingraham (1956)	M	
$H_2NCH_2CH_2NH_2$	1.5×10^{2}	9200	Cabani et al. (1978)	T	
[107-15-3]	5.6×10^{3}		Hilal et al. (2008)	Q	
2-propen-1-amine	5.4×10^{-1}		HSDB (2015)	V	
C_3H_7N	5.4×10^{-1}		Hilal et al. (2008)	C	
[107-11-9]	2.4		Hilal et al. (2008)	Q	
di-2-propenylamine	3.3×10^{-1}		HSDB (2015)	V	
$C_6H_{11}N$		7200	Kühne et al. (2005)	Q	
(diallylamine)		8000	Kühne et al. (2005)	?	
[124-02-7]					
hexamethyleneimine	1.6	8200	Cabani et al. (1971a)	T	
$(CH_2)_6NH$	6.4		Hilal et al. (2008)	Q	
[111-49-9]	4.3×10^{-1}		Meylan and Howard (1991)	Q	
cyclohexanamine	2.4		Altschuh et al. (1999)	M	
$C_6H_{13}N$	2.2	7800	Bernauer et al. (2006)	V	
(cyclohexylamine)	9.4×10^{-1}		Amoore and Buttery (1978)	V	
[108-91-8]	6.7×10^{-1}		Hilal et al. (2008)	Q	
	1.2		Nirmalakhandan et al. (1997)	Q	
	9.5×10^{-1}		Abraham et al. (1990)	?	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
3-methylcyclohexylamine $C_7H_{15}N$ [6850-35-7]	1.1		Hilal et al. (2008)	Q	
N-ethylcyclohexanamine $C_8H_{17}N$ (N-ethylcyclohexylamine) [5459-93-8]		7200 6500	Kühne et al. (2005) Kühne et al. (2005)	Q ?	
N,N-dimethylcyclohexylamine $C_8H_{17}N$ [98-94-2]	4.2×10^{-1} 5.1×10^{-1}	 7000 8500	Altschuh et al. (1999) Hilal et al. (2008) Kühne et al. (2005) Kühne et al. (2005)	M Q Q ?	
hexamethylenetetramine $C_6H_{12}N_4$ [100-97-0]	6.2×10^{3} 6.1×10^{-5} 5.8×10^{5} 9.2×10^{2} 5.4×10^{7} 1.3×10^{4}		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Hilal et al. (2008)	V Q Q Q Q Q	 107, 108 107, 109 107, 110 107, 111
1-decanamine $C_{10}H_{23}N$ [2016-57-1]	1.5×10^{-1}		Yaws et al. (2001)	X	137
N-cyclohexylcyclohexanamine $C_{12}H_{23}N$ (dicyclohexylamine) [101-83-7]	1.8×10^{-1}		HSDB (2015)	Q	38
1-dodecanamine $C_{12}H_{27}N$ [124-22-1]	3.7×10^{-2}		HSDB (2015)	Q	38
1-octadecanamine $C_{18}H_{39}N$ [124-30-1]	1.0×10^{-2}		HSDB (2015)	Q	38
N,N-dioctyl-1-octanamine $C_{24}H_{51}N$ (tri-N-octylamine) [1116-76-3]	7.0×10^{-4}		HSDB (2015)	Q	38
aminobenzene C_6H_7N (aniline) [62-53-3]	5.2 1.2 5.0 1.1 4.6 6.0 6.0 7.1×10^{-5} 6.0 5.5 3.4 7.1×10^{-5} 8.2×10^{-2}	 6500	Altschuh et al. (1999) Heal et al. (1995) Jayasinghe et al. (1992) Dallos et al. (1983) Bernauer et al. (2006) Mackay et al. (2006d) Schüürmann (2000) Lide and Frederikse (1995) Mackay et al. (1995) Hwang et al. (1992) Yoshida et al. (1983) Howard (1989) Howard (1989)	M M M M V V V V V V V X X	 147 220 142 164

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	5.1		Hilal et al. (2008)	Q	
		6200	Kühne et al. (2005)	Q	
	8.2×10^{-2}		Mackay et al. (2006d)	?	
		7100	Kühne et al. (2005)	?	
	4.3		Abraham et al. (1990)	?	
2-methylbenzenamine	5.0		Altschuh et al. (1999)	M	
C_7H_9N	1.1×10^{1}		Mackay et al. (2006d)	V	
(2-methylaniline; *o*-toluidine)	4.1		Schüürmann (2000)	V	
[95-53-4]	1.1×10^{1}		Mackay et al. (1995)	V	
	1.1×10^{1}		Mackay et al. (1995)	V	
	3.4		Yoshida et al. (1983)	V	
	4.6		Abraham et al. (1994a)	R	
	3.1		Hilal et al. (2008)	Q	
	2.0		Nirmalakhandan et al. (1997)	Q	
3-methylbenzenamine	5.9		Altschuh et al. (1999)	M	
C_7H_9N	3.9		Mackay et al. (2006d)	V	
(3-methylaniline; *m*-toluidine)	3.9		Mackay et al. (1995)	V	
[108-44-1]	4.8		Hilal et al. (2008)	Q	
4-methylbenzenamine	1.3×10^{1}		Altschuh et al. (1999)	M	
C_7H_9N	4.4		Jayasinghe et al. (1992)	M	
(4-methylaniline; *p*-toluidine)	1.5		Mackay et al. (2006d)	V	
[106-49-0]	1.5		Mackay et al. (1995)	V	
	1.6		Yoshida et al. (1983)	V	
	5.0		Abraham et al. (1994a)	R	
	5.3		Hilal et al. (2008)	Q	
	2.0		Nirmalakhandan et al. (1997)	Q	
2-ethylaniline	2.7		HSDB (2015)	Q	38
$C_8H_{11}N$		7200	Kühne et al. (2005)	Q	
(*o*-ethylaniline)		7500	Kühne et al. (2005)	?	
[578-54-1]					
4-ethylaniline	3.1		Mackay et al. (2006d)	V	
$C_8H_{11}N$	3.1		Mackay et al. (1995)	V	
(*p*-ethylaniline)		6900	Kühne et al. (2005)	Q	
[589-16-2]		8100	Kühne et al. (2005)	?	
2,4-dimethylbenzenamine	2.4		Mackay et al. (2006d)	V	
$C_8H_{11}N$	1.4×10^{-1}		Schüürmann (2000)	V	
(2,4-dimethylaniline; 2,4-xylidine)	2.4		Mackay et al. (1995)	V	
[95-68-1]	3.9		HSDB (2015)	Q	38
		7200	Kühne et al. (2005)	Q	
		7400	Kühne et al. (2005)	?	
3,4-dimethylbenzenamine	5.3		Jayasinghe et al. (1992)	M	
$C_8H_{11}N$	6.7		Hilal et al. (2008)	Q	
(3,4-dimethylaniline; 3,4-xylidine)					
[95-64-7]					

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,5-dimethylbenzenamine	3.9		HSDB (2015)	Q	38
$C_8H_{11}N$		7200	Kühne et al. (2005)	Q	
(2,5-dimethylaniline; 2,5-xylidine)		7700	Kühne et al. (2005)	?	
[95-78-3]					
2,6-dimethylbenzenamine	3.9		HSDB (2015)	V	
$C_8H_{11}N$	5.8×10^{-2}		Mackay et al. (2006d)	V	
(2,6-dimethylaniline; 2,6-xylidine)	5.8×10^{-2}		Mackay et al. (1995)	V	
[87-62-7]	2.7		Abraham et al. (1994a)	R	
	3.3		Hilal et al. (2008)	Q	
		7500	Kühne et al. (2005)	Q	
	1.4		Nirmalakhandan et al. (1997)	Q	
		7600	Kühne et al. (2005)	?	
2,4,5-trimethylbenzenamine	3.9		Jayasinghe et al. (1992)	M	
$C_9H_{13}N$	6.0		Hilal et al. (2008)	Q	
(2,4,5-trimethylaniline)					
[137-17-7]					
2-(1-methylethyl)-benzenamine		7500	Kühne et al. (2005)	Q	
$C_9H_{13}N$		6400	Kühne et al. (2005)	?	
(2-isopropylaniline)					
[643-28-7]					
2,6-diethylbenzenamine	9.0		HSDB (2015)	V	
$C_{10}H_{15}N$	9.0×10^{-1}		Hilal et al. (2008)	Q	
[579-66-8]					
1,2-benzenediamine	1.4×10^{3}		HSDB (2015)	V	
$C_6H_8N_2$	7.6×10^{1}		Schüürmann (2000)	V	
(*o*-phenylenediamine)	1.2×10^{3}		Hilal et al. (2008)	Q	
[95-54-5]					
1,3-benzenediamine	7.6×10^{3}		HSDB (2015)	V	
$C_6H_8N_2$	1.3×10^{4}		Schüürmann (2000)	V	
(*m*-phenylenediamine)	1.1×10^{5}		Hilal et al. (2008)	Q	
[108-45-2]					
1,4-benzenediamine	1.5×10^{4}		HSDB (2015)	Q	38
$C_6H_8N_2$					
(*p*-phenylenediamine)					
[106-50-3]					
2-methyl-1,3-benzenediamine	1.3×10^{4}		HSDB (2015)	Q	38
$C_7H_{10}N_2$					
[823-40-5]					
2-methyl-1,4-benzenediamine	1.3×10^{4}		HSDB (2015)	Q	38
$C_7H_{10}N_2$					
[95-70-5]					
3-methyl-1,2-benzenediamine	1.0×10^{4}		HSDB (2015)	Q	38
$C_7H_{10}N_2$					
(2,3-diaminotoluene)					
[2687-25-4]					

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
4-methyl-1,3-benzenediamine $C_7H_{10}N_2$ (toluene-2,4-diamine) [95-80-7]	1.0×10^{4}		HSDB (2015)	Q	38
3,5-diaminotoluene $C_7H_{10}N_2$ [108-71-4]	1.3×10^{4}		HSDB (2015)	Q	216
phenylhydrazine $C_6H_8N_2$ [100-63-0]	3.4×10^{2} 6.9×10^{2}		HSDB (2015) Hilal et al. (2008)	V Q	
(methylamino)-benzene C_7H_9N (N-methylaniline) [100-61-8]	8.7×10^{-1} 8.7×10^{-1} 1.1 1.5 2.7		HSDB (2015) Schüürmann (2000) Abraham et al. (1994a) Hilal et al. (2008) Nirmalakhandan et al. (1997)	V V R Q Q	
(ethylamino)-benzene $C_8H_{11}N$ (N-ethylaniline) [103-69-5]	1.0 6.2×10^{-1} 7.0×10^{-1}	 7100 7600	Altschuh et al. (1999) HSDB (2015) Hilal et al. (2008) Kühne et al. (2005) Kühne et al. (2005)	M Q Q Q ?	 38
(dimethylamino)-benzene $C_8H_{11}N$ (N,N-dimethylaniline) [121-69-7]	1.7×10^{-1} 8.5×10^{-2} 8.5×10^{-2} 1.3×10^{-1} 1.6×10^{-1} 9.9×10^{-2} 2.4 1.1 1.4×10^{-1}	 6900 6300 	HSDB (2015) Mackay et al. (2006d) Mackay et al. (1995) Meylan and Howard (1991) Yoshida et al. (1983) Hilal et al. (2008) Kühne et al. (2005) Nirmalakhandan et al. (1997) Meylan and Howard (1991) Kühne et al. (2005) Abraham et al. (1990)	V V V V V Q Q Q Q ? ?	
benzeneethanamine $C_8H_{11}N$ (2-phenylethylamine) [64-04-0]	1.2×10^{1}		HSDB (2015)	Q	38
2,3-dimethylbenzenamine $C_8H_{11}N$ (2,3-xylidine) [87-59-2]	3.9		HSDB (2015)	Q	38
3,5-dimethylbenzenamine $C_8H_{11}N$ [108-69-0]	3.9		HSDB (2015)	Q	38
dimethylaniline $C_8H_{11}N$ (xylidine) [1300-73-8]	3.9		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
phenelzine $C_8H_{12}N_2$ [51-71-8]	2.9×10^{3}		HSDB (2015)	Q	38
N,N-dimethyl-1,4-benzenediamine $C_8H_{12}N_2$ [99-98-9]	3.3×10^{2}		HSDB (2015)	Q	38
2,4,6-trimethylbenzenamine $C_9H_{13}N$ (2,4,6-trimethylaniline) [88-05-1]	3.7		HSDB (2015)	Q	38
N-ethyl-3-methylbenzenamine $C_9H_{13}N$ [102-27-2]	1.6		HSDB (2015)	Q	38
N-(1-methylethyl)benzenamine $C_9H_{13}N$ [768-52-5]	1.3		HSDB (2015)	Q	38
2-ethyl-6-methylbenzenamine $C_9H_{13}N$ [24549-06-2]	3.2 2.1 1.0 8.4×10^{-1}		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
N,N-dimethylbenzylamine $C_9H_{13}N$ [103-83-3]		7700 7700	Kühne et al. (2005) Kühne et al. (2005)	Q ?	
N,N,4-trimethylbenzenamine $C_9H_{13}N$ [99-97-8]	1.4×10^{-1}		Hilal et al. (2008)	Q	
N,N'-di-*tert*-butylethylenediamine $C_{10}H_{24}N_2$ [4062-60-6]	3.6×10^{2} 2.3 9.9×10^{-1} 1.2×10^{1}		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
(diethylamino)-benzene $C_{10}H_{15}N$ (N,N-diethylaniline) [91-66-7]	5.2×10^{-2} 4.6×10^{-1} 4.6×10^{-1} 9.9×10^{-2}	 7600 5800	HSDB (2015) Mackay et al. (2006d) Mackay et al. (1995) Hilal et al. (2008) Kühne et al. (2005) Kühne et al. (2005)	V V V Q Q ?	
1-naphthylamine $C_{10}H_9N$ [134-32-7]	1.6×10^{2} 2.1×10^{1} 8.8×10^{1} 3.0×10^{1} 4.6×10^{2}		Altschuh et al. (1999) HSDB (2015) Abraham et al. (1994a) Hilal et al. (2008) Nirmalakhandan et al. (1997)	M V R Q Q	
2-naphthylamine $C_{10}H_9N$ [91-59-8]	1.2×10^{2} 8.0×10^{1} 4.5×10^{2} 1.2×10^{2}		Abraham et al. (1994a) Hilal et al. (2008) Nirmalakhandan et al. (1997) HSDB (2015)	R Q Q ?	 170

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1,5-naphthalenediamine $C_{10}H_{10}N_2$ [2243-62-1]	1.5×10^5		HSDB (2015)	Q	38
phentermine $C_{10}H_{15}N$ [122-09-8]	7.0		HSDB (2015)	Q	38
N,N-diethyl-1,4-benzenediamine $C_{10}H_{16}N_2$ [93-05-0]	1.9×10^2		HSDB (2015)	Q	38
3,5-diethyltoluene-2,6-diamine $C_{11}H_{18}N_2$ [2095-01-4]	6.2×10^3 6.9×10^3 6.1×10^1 2.1×10^2		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
2,4-diethyl-6-methylbenzene-1,3-diamine $C_{11}H_{18}N_2$ [2095-02-5]	6.2×10^3 7.0×10^3 6.2×10^1 2.1×10^2		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
diphenylamine $C_{12}H_{11}N$ [122-39-4]	3.7 2.9×10^1 2.9×10^1 3.5 3.5 3.0 9.4		HSDB (2015) Mackay et al. (2006d) Mackay et al. (1995) Meylan and Howard (1991) Howard et al. (1991) Hilal et al. (2008) Meylan and Howard (1991)	V V V V X Q Q	 164
benzidine $C_{12}H_{12}N_2$ [92-87-5]	2.2×10^6 2.6×10^5 2.2×10^6 2.5×10^1 1.9×10^5		Mackay et al. (2006d) Lide and Frederikse (1995) Mackay et al. (1995) Mackay et al. (1995) HSDB (2015)	V V V C Q	 38
1,1-diphenylhydrazine $C_{12}H_{12}N_2$ [530-50-7]	2.4×10^2		HSDB (2015)	Q	38
1,2-diphenylhydrazine $C_{12}H_{12}N_2$ (N,N'-bianiline) [122-66-7]	2.1×10^1 2.9×10^3		HSDB (2015) Mackay et al. (2006d) Mackay et al. (1995)	V V V	 221
4-(phenylazo)-benzenamine $C_{12}H_{11}N_3$ [60-09-3]	1.1×10^5 1.9×10^3 3.2×10^3 7.3×10^5 3.4×10^2		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q Q	38 107, 108 107, 109 107, 110 107, 111
azobenzene $C_{12}H_{10}N_2$ [103-33-3]	7.0×10^{-1}		HSDB (2015)	V	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2-aminobiphenyl $C_{12}H_{11}N$ [90-41-5]	6.6×10^{1}		HSDB (2015)	Q	38
4-aminobiphenyl $C_{12}H_{11}N$ [92-67-1]	6.6×10^{1}		HSDB (2015)	Q	38
N-phenyl-1,4-benzenediamine $C_{12}H_{12}N_2$ (*p*-aminodiphenylamine) [101-54-2]	2.7×10^{4}		HSDB (2015)	Q	38
2-fluorenamine $C_{13}H_{11}N$ [153-78-6]	2.7×10^{2}		HSDB (2015)	Q	216
4,4'-methylenebisbenzenamine $C_{13}H_{14}N_2$ [101-77-9]	1.9×10^{5}		HSDB (2015)	V	
2-anthracenamine $C_{14}H_{11}N$ [613-13-8]	3.3×10^{1}		HSDB (2015)	Q	216
3,3'-dimethylbenzidine $C_{14}H_{16}N_2$ [119-93-7]	1.6×10^{5}		HSDB (2015)	Q	182
N,N-dimethyl-4-(phenylazo)-benzenamine $C_{14}H_{15}N_3$ [60-11-7]	1.4×10^{3}		HSDB (2015)	V	
	4.2×10^{1}		Zhang et al. (2010)	Q	107, 108
	4.1×10^{1}		Zhang et al. (2010)	Q	107, 109
	8.2×10^{1}		Zhang et al. (2010)	Q	107, 110
	1.0×10^{1}		Zhang et al. (2010)	Q	107, 111
N-ethyl-N-phenylbenzenemethanamine $C_{15}H_{17}N$ [92-59-1]	1.1		Zhang et al. (2010)	Q	107, 108
	1.1		Zhang et al. (2010)	Q	107, 109
	4.6×10^{-1}		Zhang et al. (2010)	Q	107, 110
	6.7		Zhang et al. (2010)	Q	107, 111
N-(1-methylethyl)-N'-phenyl-1,4-benzenediamine $C_{15}H_{18}N_2$ (4-(iso-propylamino)diphenylamine) [101-72-4]	7.0×10^{3}		HSDB (2015)	Q	38
4,4'-methylene-bis-(N-methylaniline) $C_{15}H_{18}N_2$ [1807-55-2]	3.4×10^{4}		HSDB (2015)	Q	38
C.I. Food Yellow 10 $C_{16}H_{13}N_3$ [85-84-7]	1.9×10^{4}		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
3,3',5,5'-tetramethylbenzidine $C_{16}H_{20}N_2$ [54827-17-7]	1.3×10^5		HSDB (2015)	Q	38
N-phenyl-1-naphthalenamine $C_{16}H_{13}N$ [90-30-2]	7.0×10^1 9.7×10^1 4.6×10^1 1.2×10^1 2.8×10^2		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	V Q Q Q Q	 107, 108 107, 109 107, 110 107, 111
yellow OB $C_{17}H_{15}N_3$ [131-79-3]	1.8×10^4		HSDB (2015)	Q	38
auramine $C_{17}H_{21}N_3$ [492-80-8]	1.2×10^2		HSDB (2015)	V	
benzphetamine $C_{17}H_{21}N$ [156-08-1]	2.3×10^1		HSDB (2015)	Q	38
4,4'-methylenebis(N,N-dimethylbenzenamine) $C_{17}H_{22}N_2$ (bis(p-dimethylamino)phenylmethane) [101-61-1]	8.2×10^1		HSDB (2015)	Q	38
phencyclidine $C_{17}H_{25}N$ [77-10-1]	1.8		HSDB (2015)	Q	38
N,N'-diphenyl-1,4-benzenediamine $C_{18}H_{16}N_2$ [74-31-7]	4.7×10^4		HSDB (2015)	Q	38
N-(1,3-dimethylbutyl)-N'-phenyl-1,4-phenylenediamine $C_{18}H_{24}N_2$ [793-24-8]	2.9×10^3 3.9×10^2 3.9×10^1 2.3×10^3		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
amitraz $C_{19}H_{23}N_3$ [33089-61-1]	1.0		MacBean (2012b)	X	137
N,N'-bis(1-ethyl-3-methylpentyl)-1,4-benzenediamine $C_{22}H_{40}N_2$ [139-60-6]	5.8×10^1 5.8 1.8 1.9×10^1		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
p,*p*'-benzylidenebis(N,N-dimethylaniline) $C_{23}H_{26}N_2$ (leucomalachite green) [129-73-7]	1.0×10^3		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
N-phenyl-N-(2,4,4-trimethyl-2-pentanyl)-1-naphthalenamine	6.4×10^{-1}		Zhang et al. (2010)	Q	107, 108
$C_{24}H_{29}N$	9.7×10^{-1}		Zhang et al. (2010)	Q	107, 109
[51772-35-1]	9.0×10^{-1}		Zhang et al. (2010)	Q	107, 110
	1.1×10^{1}		Zhang et al. (2010)	Q	107, 111
tris(2-ethylhexyl)amine	7.0×10^{-4}		Zhang et al. (2010)	Q	107, 108
$C_{24}H_{51}N$	1.2×10^{-2}		Zhang et al. (2010)	Q	107, 109
[1860-26-0]	6.1×10^{-6}		Zhang et al. (2010)	Q	107, 110
	3.7×10^{-4}		Zhang et al. (2010)	Q	107, 111
4,4',4"-methylidyne-tris(N,N-dimethylbenzenamine)	6.4×10^{4}		Zhang et al. (2010)	Q	107, 108
$C_{25}H_{31}N_3$	3.1×10^{4}		Zhang et al. (2010)	Q	107, 109
(Leucocrystal violet)	3.5×10^{2}		Zhang et al. (2010)	Q	107, 110
[603-48-5]	1.1×10^{6}		Zhang et al. (2010)	Q	107, 111
N-phenylbenzenamide	8.2×10^{-2}		Zhang et al. (2010)	Q	107, 108
$C_{30}H_{47}N$	4.7×10^{-1}		Zhang et al. (2010)	Q	107, 109
[68608-79-7]	1.5×10^{-1}		Zhang et al. (2010)	Q	107, 110
	2.9×10^{-1}		Zhang et al. (2010)	Q	107, 111
4,4',4"-methanetriyltris(N,N-diethylaniline)	9.0×10^{4}		Zhang et al. (2010)	Q	107, 108
$C_{31}H_{43}N_3$	7.0×10^{5}		Zhang et al. (2010)	Q	107, 109
[68814-02-8]	1.7×10^{3}		Zhang et al. (2010)	Q	107, 110
	1.5×10^{6}		Zhang et al. (2010)	Q	107, 111
Heterocycles with nitrogen (C, H, N)					
pyrrolidine	4.2		Amoore and Buttery (1978)	V	
C_4H_8NH	4.2	7600	Cabani et al. (1971a)	T	
[123-75-1]	6.0		Hilal et al. (2008)	Q	
1-pyrroline	1.6		Amoore and Buttery (1978)	M	
C_4H_7N					
[5724-81-2]					
3-pyrroline	4.9		Amoore and Buttery (1978)	V	
C_4H_7N					
[109-96-6]					
N-methylpyrrolidine	3.3×10^{-1}	7600	Cabani et al. (1971a)	T	
$C_4H_8NCH_3$	2.2×10^{-1}		Hilal et al. (2008)	Q	
[120-94-5]					
piperidine	2.8	7900	Bernauer and Dohnal (2009)	M	
$C_5H_{10}NH$	2.0		Amoore and Buttery (1978)	V	
[110-89-4]	2.2	7900	Cabani et al. (1971a)	T	
	7.3		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
N-methylpiperidine	2.4×10^{-1}		Abraham et al. (1994a)	R	
$C_5H_{10}NCH_3$	2.9×10^{-1}	7900	Cabani et al. (1971a)	T	
[626-67-5]	4.8×10^{-1}		Hilal et al. (2008)	Q	
		6300	Kühne et al. (2005)	Q	
	2.2×10^{-1}		Nirmalakhandan et al. (1997)	Q	
		6600	Kühne et al. (2005)	?	
N-ethylpiperidine	3.9×10^{-1}		Hilal et al. (2008)	Q	
$C_7H_{15}N$		6600	Kühne et al. (2005)	Q	
(1-ethylpiperidine)		6600	Kühne et al. (2005)	?	
[766-09-6]					
1,4-diazacyclohexane	1.0×10^{2}	11000	Cabani et al. (1975a)	T	
$C_4H_{10}N_2$					
(piperazine)					
[110-85-0]					
N-methylpiperazine	2.0×10^{2}	11000	Cabani et al. (1975a)	T	
$C_5H_{12}N_2$					
(1-methylpiperazine)					
[109-01-3]					
N,N'-dimethylpiperazine	1.4×10^{2}	11000	Cabani et al. (1975a)	T	
$C_6H_{14}N_2$					
(1,4-dimethylpiperazine)					
[106-58-1]					
cyromazine	1.7×10^{8}		HSDB (2015)	V	
$C_6H_{10}N_6$					
[66215-27-8]					
1H-benzotriazole	3.1×10^{1}		HSDB (2015)	V	
$C_6H_5N_3$					
(1,2,3-benzotriazole)					
[95-14-7]					
1H-benzimidazole	2.7×10^{1}		HSDB (2015)	Q	38
$C_7H_6N_2$					
[51-17-2]					
2-ethenylpyridine	2.7		HSDB (2015)	Q	38
C_7H_7N					
(2-vinylpyridine)					
[100-69-6]					
4-ethenylpyridine	3.1		HSDB (2015)	Q	38
C_7H_7N					
(4-vinylpyridine)					
[100-43-6]					
1,3,5-tricyclohexylhexahydro-1,3,5-triazine	1.7×10^{-2}		Zhang et al. (2010)	Q	107, 108
$C_{21}H_{39}N_3$	4.0×10^{5}		Zhang et al. (2010)	Q	107, 109
[6281-14-7]	1.2×10^{5}		Zhang et al. (2010)	Q	107, 110
	1.5×10^{4}		Zhang et al. (2010)	Q	107, 111

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1-piperazineethanamine $C_6H_{15}N_3$ (N-(2-aminoethyl)piperazine) [140-31-8]	1.5×10^{7}		HSDB (2015)	Q	38
pyrrole C_4H_5N (1H-pyrrole) [109-97-7]	5.5×10^{-1}		Hawthorne et al. (1985)	M	
	6.1×10^{-1}		Mackay et al. (2006d)	V	
	6.1×10^{-1}		Mackay et al. (1995)	V	
	7.2×10^{-1}		Hilal et al. (2008)	Q	
1-methyl-1H-pyrrole C_5H_7N [96-54-8]	9.0×10^{-3}		Hilal et al. (2008)	Q	
pyridine C_5H_5N [110-86-1]	1.1	6000	Bernauer and Dohnal (2009)	M	
	4.6×10^{-2}	-2300	Dewulf et al. (1999)	M	
	5.5×10^{-1}		Chaintreau et al. (1995)	M	
	8.2×10^{-1}		Hawthorne et al. (1985)	M	
	1.1		Arnett and Chawla (1979)	M	222
	7.1×10^{-1}		Amoore and Buttery (1978)	M	
	1.1	5900	Andon et al. (1954)	M	129
	7.5×10^{-1}		Hilal et al. (2008)	Q	
		6000	Kühne et al. (2005)	Q	
	1.8		Nirmalakhandan et al. (1997)	Q	
	1.1		Mackay et al. (2006d)	?	
		5400	Kühne et al. (2005)	?	
	8.9×10^{-1}		Yaws and Yang (1992)	?	92
	1.1		Abraham et al. (1990)	?	
			Staudinger and Roberts (2001)	W	223
pyridine-d5 C_5D_5N [7291-22-7]	4.2	10000	Hiatt (2013)	M	
2-methylpyridine $C_5H_4NCH_3$ (2-picoline; α-picoline) [109-06-8]	9.9×10^{-1}	6400	Andon et al. (1954)	M	129
	4.1×10^{-1}		Hilal et al. (2008)	Q	
		6400	Kühne et al. (2005)	Q	
	1.3		Nirmalakhandan et al. (1997)	Q	
	9.9×10^{-1}		Mackay et al. (2006d)	?	
		6300	Kühne et al. (2005)	?	
	3.4×10^{-1}		Yaws and Yang (1992)	?	92
	9.9×10^{-1}		Abraham et al. (1990)	?	
			Staudinger and Roberts (2001)	W	223
3-methylpyridine $C_5H_4NCH_3$ (3-picoline; β-picoline) [108-99-6]	4.2×10^{-1}		Chaintreau et al. (1995)	M	
	1.3	6300	Andon et al. (1954)	M	129
	8.8×10^{-1}		Hilal et al. (2008)	Q	
		6400	Kühne et al. (2005)	Q	
	1.3		Nirmalakhandan et al. (1997)	Q	
	1.3		Mackay et al. (2006d)	?	
		6300	Kühne et al. (2005)	?	
	5.4×10^{-1}		Yaws and Yang (1992)	?	92
	1.3		Abraham et al. (1990)	?	
			Staudinger and Roberts (2001)	W	223

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
4-methylpyridine	1.7	6500	Andon et al. (1954)	M	129
$C_5H_4NCH_3$	9.0×10^{-1}		Hilal et al. (2008)	Q	
[108-89-4]		6400	Kühne et al. (2005)	Q	
	1.3		Nirmalakhandan et al. (1997)	Q	
	1.7		Mackay et al. (2006d)	?	
		6500	Kühne et al. (2005)	?	
	1.6		Abraham et al. (1990)	?	
	1.4		Arnett and Chawla (1979)	?	222
			Staudinger and Roberts (2001)	W	223
4-aminopyridine	4.3×10^{4}		HSDB (2015)	V	
$C_5H_6N_2$					
[504-24-5]					
2-aminopyridine	3.9×10^{3}		HSDB (2015)	Q	38
$C_5H_6N_2$					
[504-29-0]					
2-ethylpyridine	6.0×10^{-1}	6700	Andon et al. (1954)	M	129
$C_5H_4NC_2H_5$	2.9×10^{-1}		Hilal et al. (2008)	Q	
[100-71-0]		6700	Kühne et al. (2005)	Q	
	1.1		Nirmalakhandan et al. (1997)	Q	
		7900	Kühne et al. (2005)	?	
	6.0×10^{-1}		Abraham et al. (1990)	?	
			Staudinger and Roberts (2001)	W	223
3-ethylpyridine	9.5×10^{-1}	6400	Andon et al. (1954)	M	129
$C_5H_4NC_2H_5$	6.7×10^{-1}		Hilal et al. (2008)	Q	
[536-78-7]		6700	Kühne et al. (2005)	Q	
	1.1		Nirmalakhandan et al. (1997)	Q	
		6200	Kühne et al. (2005)	?	
	9.5×10^{-1}		Abraham et al. (1990)	?	
			Staudinger and Roberts (2001)	W	223
4-ethylpyridine	1.2	6300	Andon et al. (1954)	M	129
$C_5H_4NC_2H_5$	7.0×10^{-1}		Hilal et al. (2008)	Q	
[536-75-4]		6700	Kühne et al. (2005)	Q	
	1.1		Nirmalakhandan et al. (1997)	Q	
		6300	Kühne et al. (2005)	?	
	1.2		Abraham et al. (1990)	?	
			Staudinger and Roberts (2001)	W	223
2,3-dimethylpyridine	1.4	6900	Andon et al. (1954)	M	129
$C_5H_3N(CH_3)_2$	6.2×10^{-1}		Hilal et al. (2008)	Q	
[583-61-9]		6200	Kühne et al. (2005)	Q	
	9.5×10^{-1}		Nirmalakhandan et al. (1997)	Q	
	1.4		Mackay et al. (2006d)	?	
		5800	Kühne et al. (2005)	?	
	1.4		Abraham et al. (1990)	?	
			Staudinger and Roberts (2001)	W	223

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,4-dimethylpyridine	9.9×10^{-1}		Hawthorne et al. (1985)	M	
$C_5H_3N(CH_3)_2$	1.5	7100	Andon et al. (1954)	M	129
[108-47-4]	5.1×10^{-1}		Hilal et al. (2008)	Q	
		6700	Kühne et al. (2005)	Q	
	9.2×10^{-1}		Nirmalakhandan et al. (1997)	Q	
	1.5		Mackay et al. (2006d)	?	
		6400	Kühne et al. (2005)	?	
	1.5		Abraham et al. (1990)	?	
			Staudinger and Roberts (2001)	W	223
2,5-dimethylpyridine	1.1	7000	Andon et al. (1954)	M	129
$C_5H_3N(CH_3)_2$	5.7×10^{-1}		Hilal et al. (2008)	Q	
[589-93-5]		6700	Kühne et al. (2005)	Q	
	9.2×10^{-1}		Nirmalakhandan et al. (1997)	Q	
	1.2		Meylan and Howard (1991)	Q	
		6900	Kühne et al. (2005)	?	
	1.1		Abraham et al. (1990)	?	
			Staudinger and Roberts (2001)	W	223
2,6-dimethylpyridine	6.6×10^{-1}		Hawthorne et al. (1985)	M	
$C_5H_3N(CH_3)_2$	9.5×10^{-1}	7300	Andon et al. (1954)	M	129
[108-48-5]	4.5×10^{-1}		Hilal et al. (2008)	Q	
		6700	Kühne et al. (2005)	Q	
	9.5×10^{-1}		Nirmalakhandan et al. (1997)	Q	
	9.4×10^{-1}		Mackay et al. (2006d)	?	
		6600	Kühne et al. (2005)	?	
	9.5×10^{-1}		Abraham et al. (1990)	?	
			Staudinger and Roberts (2001)	W	223
3,4-dimethylpyridine	2.7	6800	Andon et al. (1954)	M	129
$C_5H_3N(CH_3)_2$	1.3		Hilal et al. (2008)	Q	
[583-58-4]		6200	Kühne et al. (2005)	Q	
	9.2×10^{-1}		Nirmalakhandan et al. (1997)	Q	
		6400	Kühne et al. (2005)	?	
	2.7		Abraham et al. (1990)	?	
			Staudinger and Roberts (2001)	W	223
3,5-dimethylpyridine	1.4	6800	Andon et al. (1954)	M	129
$C_5H_3N(CH_3)_2$	9.7×10^{-1}		Hilal et al. (2008)	Q	
[591-22-0]		6700	Kühne et al. (2005)	Q	
	9.2×10^{-1}		Nirmalakhandan et al. (1997)	Q	
		6500	Kühne et al. (2005)	?	
	1.4		Abraham et al. (1990)	?	
			Staudinger and Roberts (2001)	W	223
5-ethyl-2-methylpyridine	5.2×10^{-1}		HSDB (2015)	V	
$C_8H_{11}N$	8.6×10^{-1}		Zhang et al. (2010)	Q	107, 108
[104-90-5]	3.8×10^{-1}		Zhang et al. (2010)	Q	107, 109
	7.0×10^{-1}		Zhang et al. (2010)	Q	107, 110
	6.2×10^{-2}		Zhang et al. (2010)	Q	107, 111
	4.4×10^{-1}		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,4,6-trimethylpyridine	1.1		HSDB (2015)	V	
$C_5H_2N(CH_3)_3$	5.7×10^{-2}		Mackay et al. (2006d)	V	
(collidine)	5.7×10^{-2}		Mackay et al. (1995)	V	
[108-75-8]	1.1		Hilal et al. (2008)	C	
	5.4×10^{-1}		Hilal et al. (2008)	Q	
		7100	Kühne et al. (2005)	Q	
		8600	Kühne et al. (2005)	?	
4-(1,1-dimethylethyl)-pyridine	3.9×10^{-1}		Hilal et al. (2008)	Q	
$C_9H_{13}N$	7.5×10^{-1}		Abraham et al. (1990)	?	
(4-*tert*-butylpyridine)	7.5×10^{-1}	7000	Arnett and Chawla (1979)	?	222
[3978-81-2]					
2,6-bis-(1,1-dimethylethyl)-pyridine	8.0×10^{-4}	6900	Arnett and Chawla (1979)	M	222
$C_{13}H_{21}N$	2.8×10^{-1}		Arnett and Chawla (1979)	V	224
(2,6-di-*tert*-butylpyridine)					
[585-48-8]					
1-methyl-1H-imidazole	1.1×10^{2}		Hilal et al. (2008)	Q	
$C_4H_6N_2$					
[616-47-7]					
amitrole	4.5×10^{7}		HSDB (2015)	V	
$C_2H_4N_4$	6.1×10^{9}		Mackay et al. (2006d)	V	
[61-82-5]					
1,3-diazine	1.0×10^{1}		Hilal et al. (2008)	Q	
$C_4H_4N_2$					
[289-95-2]					
1,3,5-triazine-2,4,6-triamine	5.5×10^{8}		HSDB (2015)	V	
$C_3H_6N_6$	5.2×10^{7}		Zhang et al. (2010)	Q	107, 108
[108-78-1]	6.7×10^{8}		Zhang et al. (2010)	Q	107, 109
	5.8×10^{9}		Zhang et al. (2010)	Q	107, 110
	8.4×10^{8}		Zhang et al. (2010)	Q	107, 111
3-cyanopyridine	3.6×10^{1}		Abraham et al. (1994a)	R	
$C_6H_4N_2$	3.6×10^{1}		HSDB (2015)	Q	38
[100-54-9]	1.6×10^{1}		Hilal et al. (2008)	Q	
	1.2×10^{2}		Nirmalakhandan et al. (1997)	Q	
4-cyanopyridine	1.1×10^{1}		Abraham et al. (1994a)	R	
$C_6H_4N_2$	1.7×10^{1}		Hilal et al. (2008)	Q	
[100-48-1]	1.2×10^{2}		Nirmalakhandan et al. (1997)	Q	
indole	1.9×10^{1}		HSDB (2015)	V	
C_8H_7N	7.1		Mackay et al. (2006d)	V	
[120-72-9]	7.1		Mackay et al. (1995)	V	
	1.5×10^{1}		Howard and Meylan (1997)	X	181
	9.0		Hilal et al. (2008)	Q	
2-methylpyrazine	4.5		Buttery et al. (1971)	M	
$C_4N_2H_3CH_3$	4.8		Hilal et al. (2008)	Q	
[109-08-0]	3.1		Nirmalakhandan et al. (1997)	Q	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2-ethylpyrazine	4.0		Buttery et al. (1971)	M	
$C_4N_2H_3(C_2H_5)$	2.7		Hilal et al. (2008)	Q	
[13925-00-3]	2.7		Nirmalakhandan et al. (1997)	Q	
2,5-dimethylpyrazine	7.1		Marin et al. (1999)	M	
$C_6H_8N_2$	5.5		Marin et al. (1999)	V	
[123-32-0]	6.4		Marin et al. (1999)	Q	
2,6-dimethylpyrazine $C_6H_8N_2$ (3,5-dimethylpyrazine) [108-50-9]	9.8×10^{-1}		Chaintreau et al. (1995)	M	
2-isobutylpyrazine	2.0		Buttery et al. (1971)	M	
$C_4N_2H_3C_4H_9$	1.4		Nirmalakhandan et al. (1997)	Q	
[29460-92-2]					
2-(1-methylpropyl)-pyrazine $C_8H_{12}N_2$ [29460-93-3]	1.6		Hilal et al. (2008)	Q	
5-ethenyl-2-methylpyridine C_8H_9N [140-76-1]	2.2		HSDB (2015)	Q	38
nornicotine $C_9H_{12}N_2$ [494-97-3]	7.2×10^{3}		HSDB (2015)	Q	182
2,4-diamino-6-phenyl-1,3,5-triazine $C_9H_9N_5$ [91-76-9]	2.4×10^{5}		HSDB (2015)	Q	38
3-methylindole C_9H_9N [83-34-1]	4.7		HSDB (2015)	V	
2,3-diethyl-5-methylpyrazine $C_9H_{14}N_2$ [18138-04-0]	8.1×10^{-1}		Roberts and Pollien (1997)	M	
benzo[*b*]pyridine	5.8		HSDB (2015)	V	
C_9H_7N	3.8×10^{1}		Mackay et al. (2006d)	V	
(quinoline)	3.8×10^{1}		Mackay et al. (1995)	V	
[91-22-5]	6.0		Meylan and Howard (1991)	V	
	6.4		Abraham et al. (1994a)	R	
	3.7×10^{1}	5400	Goldstein (1982)	X	116
	4.0×10^{1}		Smith and Bomberger (1980)	X	164
	6.4		Hilal et al. (2008)	Q	
		7300	Kühne et al. (2005)	Q	
	3.4×10^{1}		Nirmalakhandan et al. (1997)	Q	
	1.4×10^{1}		Meylan and Howard (1991)	Q	
		7300	Kühne et al. (2005)	?	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
benzo[c]pyridine C_9H_7N (isoquinoline) [119-65-3]	5.2×10^{-2} 5.2×10^{-2} 9.2		Mackay et al. (2006d) Mackay et al. (1995) Hilal et al. (2008)	V V Q	
nicotine $C_{10}H_{14}N_2$ [54-11-5]	3.3×10^{3}		HSDB (2015)	Q	38
2,2'-bipyridine $C_{10}H_8N_2$ [366-18-7]	1.8×10^{4}		HSDB (2015)	Q	216
4-methylquinoline $C_{10}H_9N$ [491-35-0]	1.3×10^{1}		HSDB (2015)	Q	38
MEIQX $C_{11}H_{11}N_5$ (2-amino-3,8-dimethylimidazo[4,5-f]quinoxaline) [77500-04-0]	6.2×10^{7}		HSDB (2015)	Q	38
3-(phenylazo)-2,6-pyridinediamine $C_{11}H_{11}N_5$ (phenazopyridine) [94-78-0]	3.0×10^{9}		HSDB (2015)	Q	38
2-amino-9H-pyrido[2,3-b]indole $C_{11}H_9N_3$ [26148-68-5]	2.5×10^{8}		HSDB (2015)	Q	38
benzo[f]quinoline $C_{13}H_9N$ [85-02-9]	 1.0×10^{2}		Mackay et al. (2006d) Mackay et al. (1995)	V V	221
carbazole $C_{12}H_9N$ [86-74-8]	9.3×10^{1} 6.6×10^{-2} 6.6×10^{-2} 6.2×10^{-2} 1.1×10^{2}	4300	Odabasi et al. (2006) Mackay et al. (2006d) Mackay et al. (1995) Smith and Bomberger (1980) HSDB (2015)	M V V X Q	 164 38
o-phenanthroline $C_{12}H_8N_2$ [66-71-7]	1.1×10^{5} 9.9×10^{3} 1.2×10^{5} 4.4×10^{2}		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
benzyladenine $C_{12}H_{11}N_5$ [1214-39-7]	1.1×10^{8}		HSDB (2015)	V	
MEIQ $C_{12}H_{12}N_4$ (2-amino-3,4-dimethylimidazo[4,5-f]quinoxaline) [77094-11-2]	2.5×10^{7}		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
pyrimethanil $C_{12}H_{13}N_3$ [53112-28-0]	3.9		HSDB (2015)	Q	38
paraquat $C_{12}H_{14}N_2$ [4685-14-7]	$>2.4\times10^{8}$		HSDB (2015)	V	
N,N-dimethyltryptamine $C_{12}H_{16}N_2$ [61-50-7]	1.5×10^{4}		HSDB (2015)	Q	38
PHIP $C_{13}H_{12}N_4$ (2-amino-1-methyl-6-phenylimidazo[4,5-b]pyridine) [105650-23-5]	3.5×10^{7}		HSDB (2015)	Q	38
N,N'-diphenylguanidine $C_{13}H_{13}N_3$ [102-06-7]	1.4×10^{6}		HSDB (2015)	Q	38
acridine $C_{13}H_9N$ [260-94-6]	3.3×10^{1} 3.3×10^{1} 2.5×10^{1}		Mackay et al. (2006d) Mackay et al. (1995) HSDB (2015)	V V Q	 38
cyprodinil $C_{14}H_{15}N_3$ [121552-61-2]	1.2×10^{2}		HSDB (2015)	V	
imiquimod $C_{14}H_{16}N_4$ [99011-02-6]	1.2×10^{7}		HSDB (2015)	Q	38
benz[c]acridine $C_{17}H_{11}N$ [225-51-4]	3.7×10^{2}		HSDB (2015)	Q	182
6-pentyl-1,2,3,4,7,8,9,10-octahydrophenanthridine $C_{18}H_{27}N$ [10594-03-3]	4.5×10^{-1} 2.0×10^{1} 6.2 2.2×10^{-2}		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
2-diphenylmethylpiperidine $C_{18}H_{21}N$ (desoxypipradrol) [519-74-4]	6.6×10^{1}		HSDB (2015)	Q	38
7H-dibenzo[c,g]carbazole $C_{20}H_{13}N$ [194-59-2]	4.0×10^{3}		HSDB (2015)	Q	38
dibenz[a,j]acridine $C_{21}H_{13}N$ [224-42-0]	5.2×10^{3}		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
dibenz[a,h]acridine $C_{21}H_{13}N$ [226-36-8]	5.2×10^{3}		HSDB (2015)	Q	38
Nitriles (C, H, N)					
cyano radical CN [2074-87-5]	7.8×10^{-4}	1400	Berdnikov and Bazhin (1970)	T	11
hydrogen cyanide HCN (hydrocyanic acid) [74-90-8]	1.7×10^{-1}	4400	Yoo et al. (1986)	L	
	1.1×10^{-1}	5000	Edwards et al. (1978)	L	
	7.5×10^{-2}		Riveros et al. (1998)	M	9
	1.2×10^{-1}		Fredenhagen and Wellmann (1932b)	M	
	9.2×10^{-2}		Hine and Weimar (1965)	R	
	7.4×10^{-2}		Gaffney and Senum (1984)	X	153, 205
	3.9×10^{-2}		Hilal et al. (2008)	Q	
	1.1×10^{-1}		Yaws (1999)	?	
ethane nitrile CH_3CN (acetonitrile) [75-05-8]	5.2×10^{-1}	4000	Sander et al. (2011)	L	
	5.2×10^{-1}	4000	Sander et al. (2006)	L	
	5.0×10^{-1}	4100	Fogg and Sangster (2003)	L	
	5.1×10^{-1}	4000	Staudinger and Roberts (2001)	L	
	4.7×10^{-1}	3500	Arijs and Brasseur (1986)	L	
	6.0×10^{-1}	6300	Hiatt (2013)	M	
	5.2×10^{-1}	4000	Ji and Evans (2007)	M	
	4.9×10^{-1}		Bebahani et al. (2002)	M	
	5.3×10^{-1}	4100	Benkelberg et al. (1995)	M	
	4.6×10^{-1}		Li and Carr (1993)	M	
	4.8×10^{-1}	3900	Snider and Dawson (1985)	M	
	5.3×10^{-1}	4100	Hamm et al. (1984)	M	
	3.7×10^{-2}		Abraham and Acree (2007)	V	
	5.0×10^{-1}		Hwang et al. (1992)	V	
	2.9×10^{-1}		Hine and Weimar (1965)	R	
	2.9×10^{-1}		Gaffney and Senum (1984)	X	153
	7.7×10^{-1}		Hilal et al. (2008)	Q	
		4200	Kühne et al. (2005)	Q	
	2.9×10^{-2}		Nirmalakhandan et al. (1997)	Q	
	3.6×10^{-1}		Mackay et al. (2006d)	?	
		4300	Kühne et al. (2005)	?	
	4.9×10^{-1}		Yaws and Yang (1992)	?	92
	2.9×10^{-1}		Abraham et al. (1990)	?	
propane nitrile C_2H_5CN (propionitrile) [107-12-0]	4.3×10^{-1}	6200	Hiatt (2013)	M	
	3.3×10^{-1}	4600	Ji and Evans (2007)	M	
	2.5×10^{-1}		Li and Carr (1993)	M	
	1.9×10^{-1}		Hawthorne et al. (1985)	M	
	2.6×10^{-1}		Butler and Ramchandani (1935)	M	
	3.1×10^{-1}		Mackay et al. (2006d)	V	
	3.1×10^{-1}		Mackay et al. (1995)	V	
	1.7×10^{-1}		Howard (1990)	X	164
	5.0×10^{-1}		Hilal et al. (2008)	Q	
	2.6×10^{-1}		Mackay et al. (2006d)	?	
	2.7×10^{-1}		Abraham et al. (1990)	?	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
butane nitrile	2.7×10^{-1}	5100	Ji and Evans (2007)	M	
C_3H_7CN	1.3×10^{-1}		Ramachandran et al. (1996)	M	
(butyronitrile)	1.9×10^{-1}		Li and Carr (1993)	M	
[109-74-0]	1.4×10^{-1}		Hawthorne et al. (1985)	M	
	1.9×10^{-1}		Butler and Ramchandani (1935)	M	
	3.5×10^{-1}		Hilal et al. (2008)	Q	
		4900	Kühne et al. (2005)	Q	
	1.9×10^{-2}		Nirmalakhandan et al. (1997)	Q	
	1.9×10^{-1}		Mackay et al. (2006d)	?	
		4700	Kühne et al. (2005)	?	
	1.9×10^{-1}		Abraham et al. (1990)	?	
2-methylpropane nitrile	9.4×10^{-2}		Li and Carr (1993)	M	
C_4H_7N	1.8×10^{-1}		HSDB (2015)	Q	38
(isobutyronitrile)	1.9×10^{-1}		Hilal et al. (2008)	Q	
[78-82-0]		4900	Kühne et al. (2005)	Q	
		5100	Kühne et al. (2005)	?	
pentane nitrile	1.4×10^{-1}		Li and Carr (1993)	M	
C_4H_9CN	1.6×10^{-1}		Amoore and Buttery (1978)	V	
(butyl cyanide; valeronitrile)	2.7×10^{-1}		Hilal et al. (2008)	Q	
[110-59-8]	1.5×10^{-2}		Nirmalakhandan et al. (1997)	Q	
	1.5×10^{-1}		Abraham et al. (1990)	?	
hexanenitrile $C_6H_{11}N$ [628-73-9]	2.3×10^{-1}		Hilal et al. (2008)	Q	
heptanenitrile $C_7H_{13}N$ [629-08-3]	1.6×10^{-1}		Hilal et al. (2008)	Q	
octanenitrile $C_8H_{15}N$ [124-12-9]	1.3×10^{-1}		Hilal et al. (2008)	Q	
nonanenitrile $C_9H_{17}N$ [2243-27-8]	1.0×10^{-1}		Hilal et al. (2008)	Q	
decanenitrile $C_{10}H_{19}N$ [1975-78-6]	8.0×10^{-2}		Hilal et al. (2008)	Q	
undecanenitrile $C_{11}H_{21}N$ [2244-07-7]	6.1×10^{-2}		Hilal et al. (2008)	Q	
cyclohexanecarbonitrile $C_7H_{11}N$ [766-05-2]	7.3×10^{-1}		Hilal et al. (2008)	Q	
ethanedinitrile	1.8×10^{-3}		HSDB (2015)	V	
C_2N_2	2.6×10^{-3}		Hilal et al. (2008)	Q	
(cyanogen)	1.8×10^{-3}		Yaws and Yang (1992)	?	92, 9
[460-19-5]					

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
hexanedinitrile	8.2×10^{3}		HSDB (2015)	V	
$C_6H_8N_2$	2.4×10^{2}		Mackay et al. (2006d)	V	
(adiponitrile)	2.4×10^{2}		Mackay et al. (1995)	V	
[111-69-3]	2.2×10^{3}		Hilal et al. (2008)	Q	
2-propenenitrile	1.2×10^{-1}	6800	Hiatt (2013)	M	
C_3H_3N	1.3×10^{-1}		Mackay et al. (2006d)	V	
(acrylonitrile)	8.2×10^{-2}	3400	Fogg and Sangster (2003)	V	
[107-13-1]	9.1×10^{-2}		Lide and Frederikse (1995)	V	
	1.3×10^{-1}		Mackay et al. (1995)	V	
	9.8×10^{-2}		Hwang et al. (1992)	V	
	1.1×10^{-1}	2800	Goldstein (1982)	X	116
	1.1×10^{-1}		Mackay et al. (1995)	C	
	1.1×10^{-1}		Ryan et al. (1988)	C	
	2.2×10^{-2}		Hilal et al. (2008)	Q	
		3600	Kühne et al. (2005)	Q	
	9.0×10^{-2}		Mackay et al. (2006d)	?	
		3600	Kühne et al. (2005)	?	
2-methyl-2-propene nitrile	5.4×10^{-2}	6700	Hiatt (2013)	M	
C_4H_5N	4.0×10^{-2}		HSDB (2015)	V	
(methacrylonitrile)	1.7×10^{-2}		Hilal et al. (2008)	Q	
[126-98-7]		4000	Kühne et al. (2005)	Q	
		4600	Kühne et al. (2005)	?	
benzenenitrile	2.9×10^{-1}	5100	Lee et al. (2013)	M	
C_6H_5CN	1.9×10^{-1}		HSDB (2015)	V	
(benzonitrile)	1.9×10^{-1}		Mackay et al. (2006d)	V	
[100-47-0]	3.9×10^{-1}		Schüürmann (2000)	V	
	1.9×10^{-1}		Mackay et al. (1995)	V	
	1.9×10^{-1}		Mackay et al. (1995)	V	
	5.0×10^{-1}		Abraham et al. (1994a)	R	
	2.4×10^{-1}		Hilal et al. (2008)	Q	
		5900	Kühne et al. (2005)	Q	
	1.5×10^{-1}		Nirmalakhandan et al. (1997)	Q	
		6400	Kühne et al. (2005)	?	
	1.8×10^{-2}		Yaws and Yang (1992)	?	92, 166
	4.1×10^{-1}		Abraham et al. (1990)	?	
2-pyridinecarbonitrile $C_6H_4N_2$ [100-70-9]	1.4×10^{2}		HSDB (2015)	Q	38
2-methylpentanedinitrile $C_6H_8N_2$ [4553-62-2]	3.3×10^{2}		HSDB (2015)	Q	38
3,3'-iminobispropanenitrile $C_6H_9N_3$ [111-94-4]	2.0×10^{6}		HSDB (2015)	Q	38
2-methylbenzonitrile C_8H_7N (*o*-tolunitrile) [529-19-1]	7.6×10^{-1}		Schüürmann (2000)	V	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
3-methylbenzonitrile	1.7×10^{-1}		Zhang et al. (2010)	Q	107, 108
C_8H_7N	3.4×10^{-1}		Zhang et al. (2010)	Q	107, 109
(m-tolunitrile)	8.8×10^{-1}		Zhang et al. (2010)	Q	107, 110
[620-22-4]	1.8×10^{-1}		Zhang et al. (2010)	Q	107, 111
benzeneacetonitrile	7.0×10^{-2}		HSDB (2015)	V	
C_8H_7N	1.0×10^{1}		Hilal et al. (2008)	Q	
(phenylacetonitrile)		6200	Kühne et al. (2005)	Q	
[140-29-4]		5100	Kühne et al. (2005)	?	
tetramethylbutanedinitrile $C_8H_{12}N_2$ [3333-52-6]	1.9×10^{2}		HSDB (2015)	Q	38
1,2-benzenedicarbonitrile $C_8H_4N_2$ [91-15-6]	2.0×10^{1}		HSDB (2015)	Q	38
3,7-dimethyl-2,6-octadienenitrile $C_{10}H_{15}N$ (geranyl nitrile) [5146-66-7]	2.9×10^{-2}		Helburn et al. (2008)	M	
2,2'-azobis(2-methylbutyronitrile)	4.5×10^{4}		Zhang et al. (2010)	Q	107, 108
$C_{10}H_{16}N_4$	9.2×10^{1}		Zhang et al. (2010)	Q	107, 109
[13472-08-7]	1.5×10^{1}		Zhang et al. (2010)	Q	107, 110
	4.4×10^{-1}		Zhang et al. (2010)	Q	107, 111
Amines, amides, amino acids (C, H, O, N)					
formamide CH_3NO [75-12-7]	7.0×10^{3}		HSDB (2015)	V	
methyl nitrite CH_3NO_2 [624-91-9]	1.5×10^{-1}		HSDB (2015)	Q	38
urea	5.7×10^{6}		HSDB (2015)	V	
CH_4N_2O	1.0×10^{7}		Mackay et al. (2006d)	V	
[57-13-6]	1.0×10^{7}		Mackay et al. (1995)	V	
ethanolamine $HOC_2H_4NH_2$ [141-43-5]	6.0×10^{4}		Bone et al. (1983)	M	9
1,1'-azodiformamide $C_2H_4N_4O_2$ [123-77-3]	1.2×10^{7}		HSDB (2015)	V	
ethyl nitrite $C_2H_5NO_2$ [109-95-5]	1.1×10^{-1}		HSDB (2015)	Q	38
carbamic acid, methyl ester $C_2H_5NO_2$ [598-55-0]	2.5×10^{2}		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
acetaldoxime C_2H_5NO (acetaldehyde oxime) [107-29-9]	1.7		HSDB (2015)	Q	182
ethanamide C_2H_5NO (acetamide) [60-35-5]	5.3×10^3 2.8×10^3 2.8×10^3 9.0×10^2 4.2×10^3		Wolfenden (1976) Mackay et al. (2006d) Mackay et al. (1995) HSDB (2015) Hilal et al. (2008)	M V V Q Q	 38
N-methylmethanamide C_2H_5NO (N-methylformamide) [123-39-7]	1.5×10^3 4.9×10^2 5.6×10^2	7600	Bernauer and Dohnal (2008) HSDB (2015) Hilal et al. (2008)	M V Q	
N-nitrosodimethylamine $C_2H_6N_2O$ [62-75-9]	6.1 5.2 3.0×10^{-1} 9.5 3.0×10^{-1}	6400	Klein (1982) Mirvish et al. (1976) Mackay et al. (1995) Hilal et al. (2008) Mackay et al. (2006d)	M M C Q ?	 19
methylnitrosourea $C_2H_5N_3O_2$ [684-93-5]	$>1.9\times10^2$		Mirvish et al. (1976)	M	19
nitrosoazetidine $C_3H_6N_2O$ [15216-10-1]	$>1.9\times10^2$		Mirvish et al. (1976)	M	19
methylnitrosoacetamide $C_3H_6N_2O_2$ [7417-67-6]	8.6×10^{-2}		Mirvish et al. (1976)	M	19
ethylnitrosocyanamide $C_3H_5N_3O$ [38434-77-4]	2.6×10^{-1}		Mirvish et al. (1976)	M	19
2-propenamide C_3H_5NO (acrylamide) [79-06-1]	5.5×10^3 6.9×10^3 3.1×10^4 6.9×10^3 4.1×10^3	 8400 7900	HSDB (2015) Mackay et al. (2006d) Lide and Frederikse (1995) Mackay et al. (1995) Hilal et al. (2008) Kühne et al. (2005) Kühne et al. (2005)	V V V V Q Q ?	
methylvinylnitrosamine $C_3H_6N_2O$ (N-nitrosomethylvinylamine) [4549-40-0]	2.7		HSDB (2015)	Q	38
urethane $C_3H_7NO_2$ [51-79-6]	1.5×10^2 1.1×10^1		HSDB (2015) Hilal et al. (2008)	V Q	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
N,N-dimethylmethanamide C_3H_7NO (N,N-dimethylformamide) [68-12-2]	1.6×10^2 2.2×10^2 4.5×10^1 2.2×10^2 1.6×10^2	7500	Bernauer and Dohnal (2008) Abraham et al. (1994a) Hilal et al. (2008) Nirmalakhandan et al. (1997) Taft et al. (1985)	M R Q Q Q	
N-methylacetamide C_3H_7NO [79-16-3]	3.2×10^3 2.3×10^2	8900	Bernauer and Dohnal (2008) HSDB (2015)	M V	
N-methyl-N-nitrosoethanamine $C_3H_8N_2O$ (N-nitrosomethylethylamine) [10595-95-6]	6.9		HSDB (2015)	Q	182
2-methoxyethanamine C_3H_9NO (2-methoxyethylamine) [109-85-3]	2.5×10^1	7600	Cabani et al. (1978)	T	
2-(methylamino)ethanol C_3H_9NO [109-83-1]	9.0×10^1		HSDB (2015)	V	
1-amino-2-propanol C_3H_9NO [78-96-6]	4.2×10^4		HSDB (2015)	Q	216
N-nitroso-N-methylurethane $C_4H_8N_2O_3$ (N-nitroso-N-methylurethane) [615-53-2]	3.9×10^{-1} 1.8		Mirvish et al. (1976) HSDB (2015)	M V	19
dinitrosopiperazine $C_4H_8N_4O_2$ [140-79-4]	$>1.9\times10^2$		Mirvish et al. (1976)	M	19
2-amino-3(methylamino)propionic acid $C_4H_{10}N_2O_2$ (3-(methylamino)-(DL)-alanine) [16676-91-8]	2.9×10^7		HSDB (2015)	Q	38
N-nitrosodiethanolamine $C_4H_{10}N_2O_3$ [1116-54-7]	2.0×10^6		HSDB (2015)	Q	182
N-nitrosodiethylamine $C_4H_{10}N_2O$ [55-18-5]	5.6 1.4 3.9	6300	Klein (1982) Mirvish et al. (1976) Hilal et al. (2008)	M M Q	 19
diethanolamine $C_4H_{11}NO_2$ [111-42-2]	2.5×10^5		HSDB (2015)	V	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
3-methoxy-1-propanamine $C_4H_{11}NO$ (3-methoxypropylamine) [5332-73-0]	4.8×10^{1}	8700	Cabani et al. (1978)	T	
2-[(2-aminoethyl)amino]ethanol $C_4H_{12}N_2O$ [111-41-1]	9.0×10^{7}		HSDB (2015)	Q	38
tetramethylammonium hydroxide $C_4H_{13}NO$ [75-59-2]	2.3×10^{10}		HSDB (2015)	Q	38
acetone cyanohydrin C_4H_7NO [75-86-5]	8.0×10^{1}		HSDB (2015)	V	
carbamic acid, 1-methylethyl ester $C_4H_9NO_2$ [1746-77-6]	1.4×10^{2}		HSDB (2015)	Q	38
propylcarbamate $C_4H_9NO_2$ [627-12-3]	1.0×10^{2}		HSDB (2015)	V	
N,N-dimethylacetamide C_4H_9NO [127-19-5]	4.4×10^{2} 1.7×10^{2} 3.6×10^{2}	8600	Bernauer and Dohnal (2008) Hilal et al. (2008) Taft et al. (1985)	M Q Q	
2-butanone, oxime C_4H_9NO [96-29-7]	8.1		HSDB (2015)	V	
nitrosoethylurethane $C_5H_{10}N_2O_3$ (N-ethyl-N-nitrosourethane) [614-95-9]	5.2×10^{2}		HSDB (2015)	Q	38
N-nitroso-N-butylurea $C_5H_{11}N_3O_2$ [869-01-2]	4.3×10^{4}		HSDB (2015)	Q	38
methyldiethanolamine $C_5H_{13}NO_2$ [105-59-9]	3.2×10^{5}		HSDB (2015)	V	
methylbutylnitrosamine $C_5H_{12}N_2O$ [7068-83-9]	1.7		Mirvish et al. (1976)	M	19
methylpentylnitrosamine $C_6H_{14}N_2O$ [13256-07-0]	2.0		Mirvish et al. (1976)	M	19
ethylbutylnitrosamine $C_6H_{14}N_2O$ [4549-44-4]	9.9×10^{-1}		Mirvish et al. (1976)	M	19

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
nitrosohexamethyleneimine $C_6H_{12}N_2O$ [932-83-2]	4.3×10^{1}		Mirvish et al. (1976)	M	19
2,6-dimethylnitrosomorpholine $C_6H_{12}N_2O_2$ [1456-28-6]	3.5×10^{1}		Mirvish et al. (1976)	M	19
2,6-dimethyldinitrosopiperazine $C_6H_{12}N_4O_2$ [55380-34-2]	$>1.9\times10^{2}$		Mirvish et al. (1976)	M	19
N-(1-methylethyl)-2-propenamide $C_6H_{11}NO$ (N-isopropylacrylamide) [2210-25-5]	4.3×10^{2}		HSDB (2015)	Q	38
N-butylacetamide $C_6H_{13}NO$ [1119-49-9]	2.7×10^{3} 5.2×10^{2}		Gibbs et al. (1991) Hilal et al. (2008)	M Q	
N-(1-methylethyl)-N-nitroso-2-propanamine $C_6H_{14}N_2O$ (diisopropylamine) [601-77-4]	1.2 3.4×10^{-1}		Mirvish et al. (1976) Hilal et al. (2008)	M Q	19
N-nitrosodipropylamine $C_6H_{14}N_2O$ (N,N-dipropylnitrosamine) [621-64-7]	1.8 2.8 2.8 1.6 5.8		Mirvish et al. (1976) Mackay et al. (2006d) Mackay et al. (1995) Mackay et al. (1995) Hilal et al. (2008)	M V V C Q	19
ethyldiethanolamine $C_6H_{15}NO_2$ [139-87-7]	9.0×10^{4}		HSDB (2015)	Q	38
triethanolamine $C_6H_{15}NO_3$ [102-71-6]	1.4×10^{7}		HSDB (2015)	V	
o-aminophenol C_6H_7NO (2-aminophenol) [95-55-6]	4.9×10^{4}		HSDB (2015)	Q	38
4-aminophenol C_6H_7NO [123-30-8]	2.7×10^{4}		HSDB (2015)	V	
3-aminophenol C_6H_7NO [591-27-5]	3.7×10^{4}		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
p-diaminoanisole $C_7H_{10}N_2O$ (2-methoxy-1,4-benzenediamine) [5307-02-8]	2.5×10^{5}		HSDB (2015)	Q	38
4-methoxy-1,3-benzenediamine $C_7H_{10}N_2O$ [615-05-4]	1.4×10^{4}		HSDB (2015)	Q	38
2-cyano-N-[(ethylamino)carbonyl]-2-(methoxyimino)acetamide $C_7H_{10}N_4O_3$ (cymoxanil) [57966-95-7]	3.0×10^{4}		HSDB (2015)	V	
isocyanatocyclohexane $C_7H_{11}NO$ [3173-53-3]	5.8×10^{-3}		HSDB (2015)	Q	38
L-theanine $C_7H_{14}N_2O_3$ [3081-61-6]	1.1×10^{10}		HSDB (2015)	Q	182
tetryl $C_7H_5N_5O_8$ [479-45-8]	3.7×10^{3}		HSDB (2015)	Q	38
anthranilic acid $C_7H_7NO_2$ [118-92-3]	2.6×10^{5}		HSDB (2015)	Q	38
4-aminobenzoic acid $C_7H_7NO_2$ [150-13-0]	6.6×10^{4}		HSDB (2015)	V	
salicylamide $C_7H_7NO_2$ [65-45-2]	3.4×10^{4}		HSDB (2015)	Q	38
mesalamine $C_7H_7NO_3$ [89-57-6]	2.0×10^{6}		HSDB (2015)	Q	38
N-phenylformamide C_7H_7NO [103-70-8]	1.2×10^{3}		HSDB (2015)	Q	38
benzamide C_7H_7NO [55-21-0]			Mackay et al. (2006d)	V	221
	2.2×10^{4}		Mackay et al. (1995)	V	
	4.7×10^{4}		Abraham et al. (1994a)	R	
	3.8×10^{3}		Hilal et al. (2008)	Q	
	8.2×10^{3}		Nirmalakhandan et al. (1997)	Q	
	4.0×10^{4}		HSDB (2015)	?	170

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
anthranilamide $C_7H_8N_2O$ (2-aminobenzamide) [88-68-6]	1.3×10^{7}		HSDB (2015)	Q	38
N-methyl-N-nitrosobenzenamine $C_7H_8N_2O$ [614-00-6]	2.0		HSDB (2015)	Q	38
2-methoxy-benzenamine C_7H_9NO (2-methoxyaniline) [90-04-0]	1.2×10^{1} 1.1×10^{1} 2.8×10^{1} 1.5×10^{1}		Abraham et al. (1994a) HSDB (2015) Hilal et al. (2008) Nirmalakhandan et al. (1997)	R Q Q Q	 38
3-methoxy-benzenamine C_7H_9NO (3-methoxyaniline) [536-90-3]	9.0×10^{1} 9.0×10^{1} 1.8×10^{2} 1.5×10^{1}		Abraham et al. (1994a) HSDB (2015) Hilal et al. (2008) Nirmalakhandan et al. (1997)	R Q Q Q	 38
4-methoxy-benzenamine C_7H_9NO (4-methoxyaniline) [104-94-9]	1.5×10^{2} 1.2×10^{2} 1.4×10^{2} 1.5×10^{1}		Altschuh et al. (1999) Abraham et al. (1994a) Hilal et al. (2008) Nirmalakhandan et al. (1997)	M R Q Q	
4-(methylamino)phenol C_7H_9NO (N-methyl-4-aminophenol) [150-75-4]	2.2×10^{4}		HSDB (2015)	Q	38
defenuron $C_8H_{10}N_2O$ [1007-36-9]	8.5×10^{5}		MacBean (2012a)	?	9
N-methyl-N- nitrosobenzenemethanamine $C_8H_{10}N_2O$ [937-40-6]	7.9×10^{-1} 1.2×10^{2}		Mirvish et al. (1976) Hilal et al. (2008)	M Q	19
norepinephrine $C_8H_{11}NO_3$ [51-41-2]	3.1×10^{13}		HSDB (2015)	Q	38
4-methoxy-2-methylbenzenamine $C_8H_{11}NO$ (m-cresidine) [102-50-1]	8.2×10^{1}		HSDB (2015)	Q	38
p-cresidine $C_8H_{11}NO$ [120-71-8]	8.0×10^{1}		HSDB (2015)	Q	38
N-nitrosodi-N-butylamine $C_8H_{18}N_2O$ [924-16-3]	7.2×10^{-1} 7.5×10^{-1}		Mirvish et al. (1976) Hilal et al. (2008)	M Q	19

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
(diisopropylamino)-ethanol $C_8H_{19}NO$ [96-80-0]	1.9×10^{2}		Hilal et al. (2008)	Q	
phthalamide $C_8H_8N_2O_2$ [88-96-0]	7.0×10^{6}		HSDB (2015)	Q	38
acetaminophen $C_8H_9NO_2$ [103-90-2]	1.5×10^{7}		HSDB (2015)	Q	38
methyl anthranilate $C_8H_9NO_2$ [134-20-3]	5.2		HSDB (2015)	V	
4'-aminoacetophenone C_8H_9NO (4-acetylaniline) [99-92-3]	2.2×10^{3}		HSDB (2015)	Q	38
N-phenylacetamide C_8H_9NO (acetanilide) [103-84-4]	1.6×10^{3}		HSDB (2015)	Q	38
methylcarbamic acid, 3-methylphenyl ester $C_9H_{11}NO_2$ (metolcarb) [1129-41-5]	1.2×10^{4}		HSDB (2015)	V	
phenylcarbamic acid, ethyl ester $C_9H_{11}NO_2$ [101-99-5]	3.4×10^{2}		HSDB (2015)	Q	38
ethyl anthranilate $C_9H_{11}NO_2$ [87-25-2]	6.2×10^{2}		HSDB (2015)	Q	38
benzocaine $C_9H_{11}NO_2$ [94-09-7]	6.2×10^{2}		HSDB (2015)	Q	38
1-(4-aminophenyl)-1-propanone $C_9H_{11}NO$ (4-aminopropiophenone) [70-69-9]	2.1×10^{3}		HSDB (2015)	Q	38
(4-ethoxyphenyl)urea $C_9H_{12}N_2O_2$ (dulcin) [150-69-6]	6.2×10^{5}		HSDB (2015)	Q	182
fenuron $C_9H_{12}N_2O$ [101-42-8]	8.7×10^{2} 3.7×10^{3} 1.0×10^{4}		Mackay et al. (2006d) Suntio et al. (1988) HSDB (2015)	V V Q	 9 38

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
epinephrine $C_9H_{13}NO_3$ [51-43-4]	1.4×10^{13}		HSDB (2015)	Q	38
meprobamate $C_9H_{18}N_2O_4$ [57-53-4]	5.5×10^{4}		HSDB (2015)	Q	38
propamocarb $C_9H_{20}N_2O_2$ [24579-73-5]	1.6×10^{3}		Hilal et al. (2008)	Q	
proximpham $C_{10}H_{12}N_2O_2$ [2828-42-4]	3.9×10^{3}		MacBean (2012a)	?	9
dioxacarb $C_{10}H_{13}NO_4$ [6988-21-2]	6.7×10^{5}		MacBean (2012a)	?	
phenol, 3,5-dimethyl-, methylcarbamate $C_{10}H_{13}NO_2$ (3,5-xylyl methylcarbamate) [2655-14-3]	2.5×10^{2} 4.3×10^{2}		HSDB (2015) MacBean (2012a)	Q ?	38
phenylcarbamic acid, 1-methylethyl ester $C_{10}H_{13}NO_2$ [122-42-9]	5.5×10^{1}		HSDB (2015)	V	
xylylcarb $C_{10}H_{13}NO_2$ [2425-10-7]	9.1×10^{1}		Watanabe (1993)	M	
phenacetin $C_{10}H_{13}NO_2$ [62-44-2]	4.7×10^{4}		HSDB (2015)	V	
ephedrine $C_{10}H_{15}NO$ [299-42-3]	1.1×10^{5}		HSDB (2015)	Q	182
m-cumenyl methylcarbamate $C_{11}H_{15}NO_2$ (3-isopropylphenyl methyl carbamate) [64-00-6]	1.6×10^{2}		HSDB (2015)	Q	38
propoxur $C_{11}H_{15}NO_3$ [114-26-1]	2.9×10^{3} 5.1×10^{5} 7.1×10^{3} 7.7		HSDB (2015) Mackay et al. (2006d) Siebers et al. (1994) Suntio et al. (1988)	V V V V	 9
methocarbamol $C_{11}H_{15}NO_5$ [532-03-6]	1.5×10^{10}		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
aminocarb	1.9×10^{3}		Mackay et al. (2006d)	V	
$C_{11}H_{16}N_2O_2$	1.8×10^{4}		HSDB (2015)	Q	38
[2032-59-9]					
monodesmethylisoproturon	2.8×10^{5}		Otto et al. (1997)	V	
$C_{11}H_{16}N_2O$					
[34123-57-4]					
cycluron	8.2×10^{2}		HSDB (2015)	Q	38
$C_{11}H_{22}N_2O$					
[2163-69-1]					
methylneodecanamide	4.1×10^{1}		HSDB (2015)	Q	38
$C_{11}H_{23}NO$					
[105726-67-8]					
4-(phenylazo)phenol	1.5×10^{4}		HSDB (2015)	V	
$C_{12}H_{10}N_2O$					
(4-hydroxyazobenzene)					
[1689-82-3]					
N-nitrosodiphenylamine	8.7×10^{-3}		Mackay et al. (2006d)	V	
$C_{12}H_{10}N_2O$	8.7×10^{-3}		Mackay et al. (1995)	V	
(N,N-Diphenylnitrosamine)	1.5×10^{-2}		Mackay et al. (1995)	C	
[86-30-6]	8.2		HSDB (2015)	Q	38
carbaryl	$>9.9\times10^{1}$		Mabury and Crosby (1996)	M	
$C_{12}H_{11}NO_2$	3.6×10^{3}		Watanabe (1993)	M	
[63-25-2]	2.2×10^{4}		Mackay et al. (2006d)	V	
	2.3×10^{3}		Meylan and Howard (1991)	V	
	7.7×10^{2}		Suntio et al. (1988)	V	9
	2.3×10^{3}		Howard and Meylan (1997)	X	181
	3.5×10^{3}		Armbrust (2000)	C	
	1.4×10^{3}		Hilal et al. (2008)	Q	
	3.1×10^{3}		Meylan and Howard (1991)	Q	
4,4'-oxybisbenzenamine	6.6×10^{5}		HSDB (2015)	Q	38
$C_{12}H_{12}N_2O$					
(bis(4-aminophenyl) ether)					
[101-80-4]					
carbofurane	$>9.9\times10^{1}$		Mabury and Crosby (1996)	M	
$C_{12}H_{15}NO_3$	2.2×10^{4}		HSDB (2015)	V	
[1563-66-2]	2.0×10^{4}		Mackay et al. (2006d)	V	
	2.0×10^{3}		Suntio et al. (1988)	V	9
phenol, 3-methyl-5-(1-methylethyl)-, methylcarbamate	1.1×10^{2}		HSDB (2015)	V	
$C_{12}H_{16}NO_2$	3.1×10^{2}		MacBean (2012a)	?	
(promecarb)					
[2631-37-0]					
fenobucarb	1.5×10^{2}		Watanabe (1993)	M	
$C_{12}H_{17}NO_2$					
[3766-81-2]					

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
diethyltoluamide $C_{12}H_{17}NO$ (DEET) [134-62-3]	4.7×10^{2}		HSDB (2015)	Q	38
N,N-dimethyl-N'-[4-(1-methylethyl)phenyl]-urea $C_{12}H_{18}N_2O$ (isoproturon) [34123-59-6]	8.1×10^{4} 9.5×10^{4} 1.1×10^{5}		Mackay et al. (2006d) Otto et al. (1997) Siebers et al. (1994)	V V V	
carisoprodol $C_{12}H_{24}N_2O_4$ [78-44-4]	1.4×10^{4}		HSDB (2015)	Q	38
diethylpropion $C_{13}H_{19}NO$ [90-84-6]	4.3×10^{1}		HSDB (2015)	Q	38
salbutamol $C_{13}H_{21}NO_3$ (albuterol) [18559-94-9]	1.5×10^{10}		HSDB (2015)	Q	38
disperse blue 1 $C_{14}H_{12}N_4O_2$ [2475-45-8]	4.7×10^{1}		HSDB (2015)	V	
3,3'-dimethoxybenzidine $C_{14}H_{16}N_2O_2$ [119-90-4]	2.1×10^{5}		HSDB (2015)	Q	38
aspartame $C_{14}H_{18}N_2O_5$ [22839-47-0]	3.9×10^{12}		HSDB (2015)	Q	38
dinobuton $C_{14}H_{18}N_2O_7$ (dessin) [973-21-7]	6.2×10^{2}		HSDB (2015)	Q	38
N-(2-methylcyclohexyl)-N'-phenylurea $C_{14}H_{20}N_2O$ (siduron) [1982-49-6]	1.5×10^{5}		HSDB (2015)	V	
butralin $C_{14}H_{21}N_3O_4$ [33629-47-9]	2.0 2.0		HSDB (2015) Mackay et al. (2006d)	V V	
lauramine oxide $C_{14}H_{31}NO$ [1643-20-5]	1.5×10^{5}		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2-aminoanthraquinone $C_{14}H_9NO_2$ [117-79-3]	1.1×10^{5}		HSDB (2015)	V	
1-amino-2-methyl-9,10-anthracenedione $C_{15}H_{11}NO_2$ (1-amino-2-methylanthraquinone) [82-28-0]	8.2×10^{6}		HSDB (2015)	Q	38
N-2-fluorenylacetamide $C_{15}H_{13}NO$ (2-acetylaminofluorene) [53-96-3]	5.2×10^{4}		HSDB (2015)	Q	38
metalaxyl $C_{15}H_{21}NO_4$ [57837-19-1]	3.3×10^{3} 4.0×10^{4} 8.5×10^{4}		HSDB (2015) Mackay et al. (2006d) Burkhard and Guth (1981)	V V V	
tebutam $C_{15}H_{23}NO$ [35256-85-0]	6.7×10^{1}		MacBean (2012a)	?	
isopropalin $C_{15}H_{23}N_3O_4$ [33820-53-0]	1.9×10^{-1}		Mackay et al. (2006d)	V	
metoprolol $C_{15}H_{25}NO_3$ [37350-58-6]	4.7×10^{5}		HSDB (2015)	Q	38
(3-methylphenyl)-carbamic acid, 3-[(methoxycarbonyl)amino]phenyl ester $C_{16}H_{16}N_2O_4$ (betanal) [13684-63-4]	1.2×10^{7}		HSDB (2015)	V	
fenam $C_{16}H_{17}NO$ [957-51-7]	4.1×10^{5} 2.7×10^{5}		HSDB (2015) Mackay et al. (2006d)	V V	
difenoxuron $C_{16}H_{18}N_2O_3$ [14214-32-5]	5.6×10^{7}		MacBean (2012a)	?	
butacarb $C_{16}H_{25}NO_2$ [2655-19-8]	2.2×10^{2}		HSDB (2015)	V	
oseltamivir $C_{16}H_{28}N_2O_4$ [196618-13-0]	3.4×10^{10}		HSDB (2015)	Q	38
N,N-bis(2-hydroxyethyl)dodecanamide $C_{16}H_{33}NO_3$ [120-40-1]	4.6×10^{6}		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1-[(2-methoxyphenyl)azo]-2-naphthol $C_{17}H_{14}N_2O_2$ [1229-55-6]	9.0×10^4		HSDB (2015)	Q	38
furalaxyl $C_{17}H_{19}NO_4$ [57646-30-7]	1.1×10^4		MacBean (2012a)	?	
fenoxycarb $C_{17}H_{19}NO_4$ [79127-80-3]	2.3×10^7 1.2×10^4		HSDB (2015) Mackay et al. (2006d)	V V	
bifenazate $C_{17}H_{20}N_2O_3$ [149877-41-8]	1.0×10^3		MacBean (2012b)	X	137
napropamide $C_{17}H_{21}NO_2$ [15299-99-7]	1.2×10^4		HSDB (2015)	V	
padimate O $C_{17}H_{27}NO_2$ [21245-02-3]	2.5		HSDB (2015)	Q	182
nadolol $C_{17}H_{27}NO_4$ [42200-33-9]	7.0×10^8		HSDB (2015)	Q	38
2,6-di-*tert*-butyl-4- (dimethylaminomethyl)phenol $C_{17}H_{29}NO$ [88-27-7]	4.8×10^3 2.4×10^2 1.3 4.8×10^1		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
naptalam $C_{18}H_{13}NO_3$ [132-66-1]	$>2.3\times10^{10}$		MacBean (2012a)	?	
citrus red 2 $C_{18}H_{16}N_2O_3$ [6358-53-8]	1.9×10^7		HSDB (2015)	Q	38
kresoxim-methyl $C_{18}H_{19}NO_4$ [143390-89-0]	2.7×10^3		HSDB (2015)	V	
dinocap $C_{18}H_{24}N_2O_6$ [39300-45-3]	2.1×10^3		HSDB (2015)	V	
capsaicin $C_{18}H_{27}NO_3$ [404-86-4]	9.9×10^7		HSDB (2015)	Q	38
(RS)-α-2-naphthoxypropionanilide $C_{19}H_{17}NO_2$ (naproanilide) [52570-16-8]	1.6×10^5		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
phenylbutazone $C_{19}H_{20}N_2O_2$ [50-33-9]	1.5×10^{3}		HSDB (2015)	Q	38
phenisopham $C_{19}H_{22}N_2O_4$ [57375-63-0]	1.3×10^{4}		MacBean (2012a)	?	
formoterol $C_{19}H_{24}N_2O_4$ [73573-87-2]	1.1×10^{17}		HSDB (2015)	Q	38
benalaxyl $C_{20}H_{23}NO_3$ [71626-11-4]	8.3×10^{1}		Mackay et al. (2006d)	V	
tralkoxydim $C_{20}H_{27}NO_3$ [87820-88-0]	4.1×10^{4}		HSDB (2015)	V	
neotame $C_{20}H_{30}N_2O_5$ [165450-17-9]	4.3×10^{3}		HSDB (2015)	Q	38
colchicine $C_{22}H_{25}NO_6$ [64-86-8]	5.5×10^{11}		HSDB (2015)	Q	38
tebufenozide $C_{22}H_{28}N_2O_2$ [112410-23-8]	7.6×10^{2}		HSDB (2015)	V	
methoxyfenozide $C_{22}H_{28}N_2O_3$ [161050-58-4]	2.6×10^{6}		HSDB (2015)	Q	38
propoxyphene $C_{22}H_{29}NO_2$ [469-62-5]	4.3×10^{3}		HSDB (2015)	Q	38
(Z)-13-docosenamide $C_{22}H_{43}NO$ (erucamide) [112-84-5]	3.5		HSDB (2015)	Q	216
butroxydim $C_{24}H_{33}NO_4$ [138164-12-2]	1.7×10^{4}		MacBean (2012a)	?	
2,2-bis[4-(4-aminophenoxy)phenyl]propane $C_{27}H_{26}N_2O_2$ [13080-86-9]	2.0×10^{8}		Zhang et al. (2010)	Q	107, 108
	2.8×10^{8}		Zhang et al. (2010)	Q	107, 109
	1.0×10^{8}		Zhang et al. (2010)	Q	107, 110
	3.1×10^{10}		Zhang et al. (2010)	Q	107, 111

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1,4-bis[(4-methylphenyl)amino]-9,10-anthracenedione $C_{28}H_{22}N_2O_2$ (D&C Green No. 6) [128-80-3]	6.6×10^{10}		HSDB (2015)	Q	38
mifepristone $C_{29}H_{35}NO_2$ [84371-65-3]	2.0×10^{-1}		HSDB (2015)	Q	38
2'-anilino-6'-[ethyl(3-methylbutyl)amino]-3'-methylspiro[isobenzofuran-1(3H),9'-[9H]xanthene]-3-one	8.4×10^{7}		Zhang et al. (2010)	Q	107, 108
$C_{34}H_{34}N_2O_3$	2.0×10^{8}		Zhang et al. (2010)	Q	107, 109
[70516-41-5]	3.5×10^{8}		Zhang et al. (2010)	Q	107, 110
	8.0×10^{8}		Zhang et al. (2010)	Q	107, 111
glutamic acid $C_5H_9NO_4$ [617-65-2]	9.9×10^{10}		Saxena and Hildemann (1996)	E	158
asparagine $C_4H_8N_2O_3$ [70-47-3]	9.9×10^{10}		Saxena and Hildemann (1996)	E	158
serine $C_3H_7NO_3$ [302-84-1]	3.9×10^{10}		Saxena and Hildemann (1996)	E	158
glutamine	3.3×10^{10}		HSDB (2015)	Q	182
$C_5H_{10}N_2O_3$	9.9×10^{10}		Saxena and Hildemann (1996)	E	158
[56-85-9]					
glycine	1.2×10^{11}	16000	Brimblecombe et al. (1992)	V	
$C_2H_5NO_2$	8.9×10^{5}		Saxena and Hildemann (1996)	E	158
[56-40-6]					
arginine $C_6H_{14}N_4O_2$ [74-79-3]	9.9×10^{14}		Saxena and Hildemann (1996)	E	158
alanine	3.5×10^{10}	16000	Brimblecombe et al. (1992)	V	
$C_3H_7NO_2$	5.9×10^{5}		Saxena and Hildemann (1996)	E	158
[302-72-7]					
leucine $C_6H_{13}NO_2$ [328-39-2]	2.0×10^{5}		Saxena and Hildemann (1996)	E	158
Heterocycles with oxygen and nitrogen (C, H, O, N)					
cyanuric acid	1.1×10^{9}		HSDB (2015)	Q	38
$C_3H_3N_3O_3$	1.1×10^{9}		Zhang et al. (2010)	Q	107, 108
[108-80-5]	3.4×10^{5}		Zhang et al. (2010)	Q	107, 109
	4.2×10^{10}		Zhang et al. (2010)	Q	107, 110
	4.0×10^{7}		Zhang et al. (2010)	Q	107, 111

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
isoxazole C_3H_3NO [288-14-2]	2.4×10^{-1}		Hilal et al. (2008)	Q	
glycidamide $C_3H_5NO_2$ [5694-00-8]	7.7×10^{4}		HSDB (2015)	Q	38
cyclonite $C_3H_6N_6O_6$ [121-82-4]	4.9×10^{5}		HSDB (2015)	V	
5-methyl-3-(2H)-isoxazolone $C_4H_5NO_2$ (hymexazol) [10004-44-1]	5.0×10^{3}		Hilal et al. (2008)	Q	
allantoin $C_4H_6N_4O_3$ [97-59-6]	2.9×10^{12}		HSDB (2015)	Q	38
2-pyrrolidinone C_4H_7NO [616-45-5]	9.3×10^{3}		HSDB (2015)	V	
4-nitrosomorpholine $C_4H_8N_2O_2$ [59-89-2]	3.9×10^{2} 9.0×10^{2}		Mirvish et al. (1976) Hilal et al. (2008)	M Q	19
N-nitrosopyrrolidine $C_4H_8N_2O$ [930-55-2]	1.5×10^{2} 1.9×10^{2} 3.4×10^{1}	8500	Klein (1982) Mirvish et al. (1976) Hilal et al. (2008)	M M Q	 19
cyclotetramethylenetetranitramine $C_4H_8N_8O_8$ [2691-41-0]	1.1×10^{4}		HSDB (2015)	Q	38
1-oxa-4-azacyclohexane C_4H_9NO (morpholine) [110-91-8]	8.2 7.3×10^{1} 1.6×10^{2} 1.0×10^{1}	 8400	HSDB (2015) Cabani et al. (1975a) Hilal et al. (2008) Nirmalakhandan et al. (1997)	V T Q Q	
1-aziridineethanol C_4H_9NO [1072-52-2]	1.3×10^{4}		HSDB (2015)	Q	38
2-ethyl-3-methoxypyrazine $C_4N_2H_3(C_2H_5)OCH_3$ [25680-58-4]	6.7×10^{-1} 2.5×10^{1}		Buttery et al. (1971) Hilal et al. (2008)	M Q	
2-isobutyl-3-methoxypyrazine $C_4N_2H_3(C_4H_9)OCH_3$ [24683-00-9]	1.7×10^{-1} 2.0×10^{-1}		Karl et al. (2003) Buttery et al. (1971)	M M	
1-nitrosopiperidine $C_5H_{10}N_2O$ [100-75-4]	1.1×10^{1} 2.9×10^{1}		Mirvish et al. (1976) Hilal et al. (2008)	M Q	19

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
butyl carbamate $C_5H_{11}NO_2$ [592-35-8]	1.1×10^{2}		HSDB (2015)	Q	38
4-methyl-1-oxa-4-azacyclohexane $C_5H_{11}NO$ (N-methylmorpholine; 4-methylmorpholine) [109-02-4]	1.8×10^{1} 5.7 1.7×10^{1}	8300	Cabani et al. (1975a) Hilal et al. (2008) Nirmalakhandan et al. (1997)	T Q Q	
allopurinol $C_5H_4N_4O$ [315-30-0]	4.9×10^{8}		HSDB (2015)	Q	38
4-methoxypyridine $C_5H_4NOCH_3$ [620-08-6]		7100	Arnett and Chawla (1979)	?	222
N-methyl-2-pyrrolidone C_5H_9NO [872-50-4]	2.1×10^{3} 3.1×10^{3}	9100	Bernauer and Dohnal (2009) Kim et al. (2000)	M M	
5,5-dimethyl-2,4-imidazolidinedione $C_5H_8N_2O_2$ [77-71-4]	3.5×10^{3} 3.6×10^{3} 1.6×10^{5} 5.1×10^{6} 1.6×10^{5}		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q Q	38 107, 108 107, 109 107, 110 107, 111
2-azacycloheptanone $C_6H_{11}NO$ (caprolactam) [105-60-2]	1.8×10^{5} 2.0×10^{3}		HSDB (2015) Hwang et al. (1992)	V V	
N-acetylpyrrolidine $C_6H_{11}NO$ [4030-18-6]	6.2×10^{3}		Gibbs et al. (1991)	M	
glucosamine $C_6H_{13}NO_5$ [3416-24-8]	1.3×10^{10}		HSDB (2015)	Q	38
N-ethylmorpholine $C_6H_{13}NO$ [100-74-3]	4.0×10^{2}		HSDB (2015)	Q	38
3-formylpyridine C_6H_5NO [500-22-1]	6.5×10^{1} 1.0×10^{2} 3.8×10^{1}		Abraham et al. (1994a) Hilal et al. (2008) Nirmalakhandan et al. (1997)	R Q Q	
4-formylpyridine C_6H_5NO [872-85-5]	5.6×10^{1} 1.0×10^{2} 3.8×10^{1}		Abraham et al. (1994a) Hilal et al. (2008) Nirmalakhandan et al. (1997)	R Q Q	
niacinamide $C_6H_6N_2O$ [98-92-0]	3.4×10^{6}		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
metronidazole $C_6H_9N_3O_3$ [443-48-1]	5.8×10^{5}		HSDB (2015)	Q	38
glydant $C_7H_{12}N_2O_4$ (1,3-dimethylol-5,5-dimethylhydantoin) [6440-58-0]	1.4×10^{6}		HSDB (2015)	Q	38
3-quinuclidinol $C_7H_{13}NO$ [1619-34-7]	1.2×10^{4}		HSDB (2015)	Q	38
dinotefuran $C_7H_{14}N_4O_3$ [165252-70-0]	1.5×10^{8}		HSDB (2015)	V	
1,2,3-benzotriazin-4(1H)-one $C_7H_5N_3O$ [90-16-4]	3.1×10^{4}		HSDB (2015)	Q	38
4-acetylpyridine C_7H_7NO [1122-54-9]	1.6×10^{2} 1.9×10^{2} 2.7×10^{1}		Abraham et al. (1994a) Hilal et al. (2008) Nirmalakhandan et al. (1997)	R Q Q	
3-acetylpyridine C_7H_7NO [350-03-8]	4.6×10^{2} 1.9×10^{2} 2.7×10^{1}		Abraham et al. (1994a) Hilal et al. (2008) Nirmalakhandan et al. (1997)	R Q Q	
theophylline $C_7H_8N_4O_2$ [58-55-9]	5.5×10^{8}		HSDB (2015)	Q	38
theobromine $C_7H_8N_4O_2$ [83-67-0]	6.2×10^{5}		HSDB (2015)	Q	38
2-pyridineethanol C_7H_9NO [103-74-2]	6.6×10^{4}		HSDB (2015)	Q	38
caffeine $C_8H_{10}N_4O_2$ [58-08-2]	9.0×10^{5}		HSDB (2015)	V	
acyclovir $C_8H_{11}N_5O_3$ [59277-89-3]	3.1×10^{16}		HSDB (2015)	Q	38
2-methoxy-3-(1-methylethyl)-pyrazine $C_8H_{12}N_2O$ [25773-40-4]	1.5×10^{1}		Hilal et al. (2008)	Q	
simeton $C_8H_{15}N_5O$ [673-04-1]	1.5×10^{4} 2.5×10^{4}		Hilal et al. (2008) Abraham et al. (2007)	Q Q	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
N-isobutylmorpholine $C_8H_{17}NO$ [10315-98-7]		8100 6000	Kühne et al. (2005) Kühne et al. (2005)	Q ?	
phthalimide $C_8H_5NO_2$ [85-41-6]	9.9×10^{2}		HSDB (2015)	Q	38
furazolidone $C_8H_7N_3O_5$ [67-45-8]	3.0×10^{5}		HSDB (2015)	Q	38
1,2,3,6-tetrahydrophthalimide $C_8H_9NO_2$ [85-40-5]	3.3×10^{2}		HSDB (2015)	Q	38
N-nitrosonornicotine $C_9H_{11}N_3O$ [16543-55-8]	5.8×10^{4}		HSDB (2015)	Q	182
9-[(1,3-dihydroxy-2-propoxy)methyl]guanine $C_9H_{13}N_5O_4$ (ganciclovir) [82410-32-0]	6.6×10^{17}		HSDB (2015)	Q	38
atraton $C_9H_{17}N_5O$ [1610-17-9]	6.4×10^{3} 1.1×10^{4} 2.2×10^{3}		Hilal et al. (2008) Abraham et al. (2007) MacBean (2012a)	Q Q ?	
4-hydroxy-2,2,6,6-tetramethyl-1-piperidinyloxy $C_9H_{18}NO_2$ [2226-96-2]	3.3×10^{9}		HSDB (2015)	Q	38
8-hydroxyquinoline C_9H_7NO [148-24-3]	1.7×10^{1}		HSDB (2015)	V	
carbendazim $C_9H_9N_3O_2$ [10605-21-7]	4.7×10^{5} 6.5×10^{5}		HSDB (2015) Mackay et al. (2006d)	V V	
metamitron $C_{10}H_{10}N_4O$ [41394-05-2]	2.2×10^{6} 2.8×10^{7} 1.6×10^{7}		Delgado and Alderete (2003) Delgado and Alderete (2003) Delgado and Alderete (2003)	C Q Q	
pymetrozin $C_{10}H_{11}N_5O$ [123312-89-0]	3.3×10^{5}		HSDB (2015)	V	
3-oxo-N-phenylbutanamide $C_{10}H_{11}NO_2$ (acetoacetanilide) [102-01-2]	2.3×10^{6}		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,3'-didehydro-3'-deoxythymidine (stavudine) $C_{10}H_{12}N_2O_4$ (stavudine) [3056-17-5]	4.3×10^{9}		HSDB (2015)	Q	38
cotinine $C_{10}H_{12}N_2O$ [486-56-6]	3.0×10^{6}		HSDB (2015)	Q	38
4-(N-nitroso-N-methylamino)-1-(3-pyridyl)-1-butanone $C_{10}H_{13}N_3O_2$ [64091-91-4]	1.2×10^{8}		HSDB (2015)	Q	38
9-(4-hydroxy-3-hydroxymethylbut-1-yl)guanine $C_{10}H_{15}N_5O_3$ (penciclovir) [39809-25-1]	1.0×10^{26}		HSDB (2015)	Q	38
anatoxin A $C_{10}H_{15}NO$ [64285-06-9]	1.5×10^{3}		HSDB (2015)	Q	38
dimetilan $C_{10}H_{16}N_4O_3$ [644-64-4]	2.4×10^{5}		HSDB (2015)	Q	38
isolan $C_{10}H_{17}N_3O_2$ [119-38-0]	4.9×10^{3}		HSDB (2015)	Q	38
amicarbazone $C_{10}H_{19}N_5O_2$ [129909-90-6]	1.5×10^{7}		MacBean (2012b)	X	137
prometone $C_{10}H_{19}N_5O$ [1610-18-0]	1.1×10^{4} 1.1×10^{4} 1.1×10^{4} 2.7×10^{3} 5.1×10^{3}		HSDB (2015) Mackay et al. (2006d) Suntio et al. (1988) Hilal et al. (2008) Abraham et al. (2007)	V V V Q Q	 9
secbumeton $C_{10}H_{19}N_5O$ [26259-45-0]	2.8×10^{3} 2.9×10^{3} 5.0×10^{3} 7.2×10^{3} 2.7×10^{3}		Mackay et al. (2006d) Suntio et al. (1988) Hilal et al. (2008) Abraham et al. (2007) MacBean (2012a)	V V Q Q ?	 9
terbumeton $C_{10}H_{19}N_5O$ [33693-04-8]	2.1×10^{3} 2.4×10^{3} 1.6×10^{3}		Mackay et al. (2006d) Hilal et al. (2008) Abraham et al. (2007)	V Q Q	
kinetin $C_{10}H_9N_5O$ [525-79-1]	8.2×10^{8}		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
carbadox $C_{11}H_{10}N_4O_4$ [6804-07-5]	2.2×10^{17}		HSDB (2015)	Q	38
bendiocarb $C_{11}H_{13}NO_4$ [22781-23-3]	2.5×10^{2} 2.7×10^{2}		HSDB (2015) Mackay et al. (2006d)	V V	
2,3,5-trimethylphenol, methylcarbamate $C_{11}H_{15}NO_2$ (2,3,5-trimethacarb) [2655-15-4]	4.5×10^{1}		HSDB (2015)	V	
butalbital $C_{11}H_{16}N_2O_3$ [77-26-9]	1.6×10^{7}		HSDB (2015)	Q	38
dexrazoxane $C_{11}H_{16}N_4O_4$ [24584-09-6]	4.7×10^{13}		HSDB (2015)	Q	38
pentobarbital $C_{11}H_{18}N_2O_3$ [76-74-4]	1.2×10^{7}		HSDB (2015)	Q	38
pirimor $C_{11}H_{18}N_4O_2$ (pirimicarb) [23103-98-2]	1.2×10^{4} 3.1×10^{3} 5.0×10^{3} 5.9×10^{3} 3.1×10^{3}		HSDB (2015) Mackay et al. (2006d) Siebers and Mattusch (1996) Siebers et al. (1994) Suntio et al. (1988)	V V V V V	 9 9
ethirimol $C_{11}H_{19}N_3O$ [23947-60-6]	3.6×10^{3}		Mackay et al. (2006d)	V	
fenfuram $C_{12}H_{11}NO_2$ [24691-80-3]	2.5×10^{4}		Mackay et al. (2006d)	V	
phenobarbital $C_{12}H_{12}N_2O_3$ [50-06-6]	5.8×10^{8}		HSDB (2015)	Q	38
triaziquone $C_{12}H_{13}N_3O_2$ [68-76-8]	1.1×10^{10}		HSDB (2015)	Q	38
triallyl cyanurate $C_{12}H_{15}N_3O_3$ [101-37-1]	2.3×10^{1} 1.8×10^{3} 1.9×10^{2} 4.1×10^{4}		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
entecavir $C_{12}H_{15}N_5O_3$ [142217-69-4]	6.2×10^{15}		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
metaxalone $C_{12}H_{15}NO_3$ [1665-48-1]	3.7×10^{4}		HSDB (2015)	Q	38
phendimetrazine $C_{12}H_{17}NO$ [634-03-7]	3.7×10^{2}		HSDB (2015)	Q	38
hexazinone $C_{12}H_{20}N_4O_2$ [51235-04-2]	$>9.9\times10^{1}$ 4.4×10^{6}		Mabury and Crosby (1996) HSDB (2015)	M V	
picaridin $C_{12}H_{23}NO_3$ [119515-38-7]	3.3×10^{5}		HSDB (2015)	Q	38
pyrinuron $C_{13}H_{12}N_4O_3$ (pyriminil) [53558-25-1]	5.4×10^{10}		HSDB (2015)	Q	38
melatonin $C_{13}H_{16}N_2O_2$ [73-31-4]	3.8×10^{8}		HSDB (2015)	Q	182
dibenz[b, f]][1,4]oxazepine $C_{13}H_9NO$ [257-07-8]	2.4×10^{-3}		HSDB (2015)	Q	38
benomyl $C_{14}H_{18}N_4O_3$ [17804-35-2]	5.2×10^{5}		Mackay et al. (2006d)	V	
trimethoprim $C_{14}H_{18}N_4O_3$ [738-70-5]	4.1×10^{8}		HSDB (2015)	Q	38
famciclovir $C_{14}H_{19}N_5O_4$ [104227-87-4]	1.0×10^{8}		HSDB (2015)	Q	38
furmecyclox $C_{14}H_{21}NO_3$ [60568-05-0]	1.4×10^{2}		MacBean (2012a)	?	
oxcarbazepine $C_{15}H_{12}N_2O_2$ [28721-07-5]	1.4×10^{7}		HSDB (2015)	Q	38
phenytoin $C_{15}H_{12}N_2O_2$ [57-41-0]	9.7×10^{5}		HSDB (2015)	Q	38
carbamazepine $C_{15}H_{12}N_2O$ [298-46-4]	9.0×10^{4}		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
propylthiouracil $C_{15}H_{12}N_2O$ [51-52-5]	9.0×10^{3}		HSDB (2015)	Q	38
ancymidol $C_{15}H_{16}N_2O_2$ [12771-68-5]	4.7×10^{6}		Hilal et al. (2008)	Q	
imazethapyr $C_{15}H_{19}N_3O_3$ [81335-77-5]	9.9×10^{10}		HSDB (2015)	Q	38
imazamox $C_{15}H_{19}N_3O_4$ [114311-32-9]	1.1×10^{13}		HSDB (2015)	Q	38
cycloheximide $C_{15}H_{23}NO_4$ [66-81-9]	2.8×10^{9}		HSDB (2015)	Q	38
oxymatrine $C_{15}H_{24}N_2O_2$ [16837-52-8]	9.9×10^{12}		HSDB (2015)	Q	38
mebendazole $C_{16}H_{13}N_3O_3$ [31431-39-7]	1.8×10^{10}		HSDB (2015)	Q	38
fenpyroximate $C_{16}H_{20}N_2O_3$ [134098-61-6]	7.6		MacBean (2012b)	X	137
imazamethabenz-methyl $C_{16}H_{20}N_2O_3$ [81405-85-8]	2.6×10^{6}		HSDB (2015)	V	
nifedipine $C_{17}H_{18}N_2O_6$ [21829-25-4]	1.4×10^{8}		HSDB (2015)	Q	38
oxymorphone $C_{17}H_{19}NO_4$ [76-41-5]	2.4×10^{13}		HSDB (2015)	Q	38
desomorphine $C_{17}H_{21}NO_2$ [427-00-9]	2.4×10^{6}		HSDB (2015)	Q	38
cocaine $C_{17}H_{21}NO_4$ [50-36-2]	2.3×10^{5}		HSDB (2015)	V	
N-(2-ethylhexyl)-5-norbornene-2,3-dicarboximide $C_{17}H_{25}NO_2$ [113-48-4]	3.5×10^{1}		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
quinophthalone $C_{18}H_{11}NO_2$ [8003-22-3]	1.6×10^{8}		HSDB (2015)	Q	38
tetramethrin $C_{19}H_{25}NO_4$ [7696-12-0]	5.8		HSDB (2015)	V	
isoxaben $C_{19}H_{25}NO_4$ [82558-50-7]	7.8×10^{3}		MacBean (2012b)	X	137
alfuzosin $C_{19}H_{27}N_5O_4$ [81403-80-7]	1.0×10^{14}		HSDB (2015)	Q	38
pyriproxyfen $C_{20}H_{19}NO_3$ [95737-68-1]	1.6×10^{4}		HSDB (2015)	Q	38
papaverine $C_{20}H_{21}NO_4$ [58-74-2]	1.3×10^{7}		HSDB (2015)	Q	38
fenazaquin $C_{20}H_{22}N_2O$ [120928-09-8]	9.9×10^{1}		HSDB (2015)	V	
bitertanol $C_{20}H_{23}N_3O_2$ [55179-31-2]	1.2×10^{4}		Mackay et al. (2006d)	V	
bitertanol diastereoisomer a $C_{20}H_{23}N_3O_2$ [70585-36-3]	3.1×10^{6}		Mackay et al. (2006d)	V	
bitertanol diastereoisomer b $C_{20}H_{23}N_3O_2$ [70585-38-5]	1.5×10^{6}		Mackay et al. (2006d)	V	
naltrexone $C_{20}H_{23}NO_4$ [16590-41-3]	2.3×10^{13}		HSDB (2015)	Q	38
D-lysergic acid N,N-diethylamide $C_{20}H_{25}N_3O$ (LSD) [50-37-3]	6.6×10^{10}		HSDB (2015)	Q	38
ibogaine $C_{20}H_{26}N_2O$ [83-74-9]	8.2×10^{5}		HSDB (2015)	Q	38
fenpropimorph $C_{20}H_{33}NO$ [67564-91-4]	6.2		Mackay et al. (2006d)	V	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
strychnine $C_{21}H_{22}N_2O_2$ [57-24-9]	1.6×10^{8}		HSDB (2015)	Q	38
nalmefene $C_{21}H_{25}NO_3$ [55096-26-9]	5.5×10^{10}		HSDB (2015)	Q	38
benztropine $C_{21}H_{25}NO$ [86-13-5]	4.5×10^{3}		HSDB (2015)	Q	38
stanozolol $C_{21}H_{32}N_2O$ [10418-03-8]	9.0×10^{2}		HSDB (2015)	Q	38
azoxystrobin $C_{22}H_{17}N_3O_5$ [131860-33-8]	1.4×10^{8}		HSDB (2015)	V	
famoxadone $C_{22}H_{18}N_2O_4$ [131807-57-3]	2.1×10^{2}		HSDB (2015)	V	
tadalafil $C_{22}H_{19}N_3O_4$ [171596-29-5]	2.0×10^{12}		HSDB (2015)	Q	38
bisacodyl $C_{22}H_{19}NO_4$ [603-50-9]	1.4×10^{6}		HSDB (2015)	Q	38
fentanyl $C_{22}H_{28}N_2O$ [437-38-7]	1.1×10^{6}		HSDB (2015)	Q	38
4-(triphenylmethyl)morpholine $C_{23}H_{23}NO$ (trifenmorph) [1420-06-0]	7.6×10^{4} 3.2		HSDB (2015) MacBean (2012a)	Q ?	38
brucine $C_{23}H_{26}N_2O_4$ [357-57-3]	4.7×10^{10}		HSDB (2015)	Q	38
mycophenolate mofetil $C_{23}H_{31}NO_7$ [128794-94-5]	1.8×10^{9}		HSDB (2015)	Q	38
pinoxaden $C_{23}H_{32}N_2O_4$ [243973-20-8]	1.1×10^{6}		HSDB (2015)	V	
valsartan $C_{24}H_{29}N_5O_3$ [137862-53-4]	3.2×10^{12}		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
donepezil $C_{24}H_{29}NO_3$ [120014-06-4]	8.2×10^{6}		HSDB (2015)	Q	38
2-[4-[4-(2-benzoxazolyl)styryl]phenyl]-5-methylbenzoxazole $C_{29}H_{20}N_2O_2$ [5242-49-9]	7.5×10^{8}		Zhang et al. (2010)	Q	107, 108
	6.2×10^{6}		Zhang et al. (2010)	Q	107, 109
	1.2×10^{5}		Zhang et al. (2010)	Q	107, 110
	9.5×10^{7}		Zhang et al. (2010)	Q	107, 111
2-(2H-benzotriazol-2-yl)-4,6-bis(1-methyl-1-phenylethyl)phenol $C_{30}H_{29}N_3O$ [70321-86-7]	7.2×10^{9}		Zhang et al. (2010)	Q	107, 108
	5.8×10^{5}		Zhang et al. (2010)	Q	107, 109
	1.4×10^{7}		Zhang et al. (2010)	Q	107, 110
	8.8×10^{6}		Zhang et al. (2010)	Q	107, 111
norbormide $C_{33}H_{25}N_3O_3$ [991-42-4]	3.7×10^{17}		HSDB (2015)	Q	38
reserpine $C_{33}H_{40}N_2O_9$ [50-55-5]	1.8×10^{17}		HSDB (2015)	Q	38
telaprevir $C_{36}H_{53}N_7O_6$ [402957-28-2]	1.3×10^{25}		HSDB (2015)	Q	38
lopinavir $C_{37}H_{48}N_4O_5$ [192725-17-0]	2.3×10^{22}		HSDB (2015)	Q	38
atazanavir $C_{38}H_{52}N_6O_7$ [198904-31-3]	2.7×10^{26}		HSDB (2015)	Q	38
tylosin $C_{46}H_{77}NO_{17}$ [1401-69-0]	1.7×10^{32}		HSDB (2015)	Q	38
nystatin $C_{47}H_{75}NO_{17}$ [1400-61-9]	4.9×10^{4}		HSDB (2015)	Q	38
1,3,5-tris(3,5-di-*tert*-butyl-4-hydroxybenzyl)-1,3,5-triazinane-2,4,6-trione $C_{48}H_{69}N_3O_6$ [27676-62-6]	6.1×10^{20}		Zhang et al. (2010)	Q	107, 108
	1.3×10^{12}		Zhang et al. (2010)	Q	107, 109
	3.4×10^{10}		Zhang et al. (2010)	Q	107, 110
	8.2×10^{14}		Zhang et al. (2010)	Q	107, 111
Nitrates ($RONO_2$)					
urea nitrate $CH_5N_3O_4$ [124-47-0]	5.8×10^{11}		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
methyl nitrate	2.0×10^{-2}	4700	Sander et al. (2011)	L	
CH_3ONO_2	2.0×10^{-2}	4700	Sander et al. (2006)	L	
[598-58-3]	2.0×10^{-2}	4700	Kames and Schurath (1992)	M	
	2.6×10^{-2}		Schwartz (1986)	C	31
	6.2×10^{-2}		Hilal et al. (2008)	Q	
		4900	Kühne et al. (2005)	Q	
		4800	Kühne et al. (2005)	?	
ethyl nitrate	1.6×10^{-2}	5400	Sander et al. (2011)	L	
$C_2H_5ONO_2$	1.6×10^{-2}	5400	Sander et al. (2006)	L	
[625-58-1]	1.6×10^{-2}	5400	Kames and Schurath (1992)	M	
	3.3×10^{-2}		HSDB (2015)	Q	38
	3.9×10^{-2}		Hilal et al. (2008)	Q	
1-propyl nitrate	1.1×10^{-2}	5500	Sander et al. (2011)	L	
$C_3H_7ONO_2$	1.1×10^{-2}	5500	Sander et al. (2006)	L	
[627-13-4]	9.0×10^{-3}	5600	Staudinger and Roberts (2001)	L	
	7.4×10^{-3}	4600	Hauff et al. (1998)	M	
	1.1×10^{-2}	5500	Kames and Schurath (1992)	M	
	1.1×10^{-2}		Hauff et al. (1998)	V	
	2.5×10^{-2}		Hilal et al. (2008)	Q	
		5600	Kühne et al. (2005)	Q	
		4600	Kühne et al. (2005)	?	
2-propyl nitrate	7.8×10^{-3}	5400	Sander et al. (2011)	L	
$C_3H_7ONO_2$	7.8×10^{-3}	5400	Sander et al. (2006)	L	
(isopropyl nitrate)	6.6×10^{-3}	5400	Staudinger and Roberts (2001)	L	
[1712-64-7]	5.5×10^{-3}	4300	Hauff et al. (1998)	M	
	7.8×10^{-3}	5400	Kames and Schurath (1992)	M	
	8.1×10^{-3}		Hauff et al. (1998)	V	
	1.7×10^{-2}		Hilal et al. (2008)	Q	
		4600	Kühne et al. (2005)	Q	
		4300	Kühne et al. (2005)	?	
1-butyl nitrate	1.0×10^{-2}	5800	Sander et al. (2011)	L	
$C_4H_9ONO_2$	1.0×10^{-2}	5800	Sander et al. (2006)	L	
[928-45-0]	8.8×10^{-3}	6000	Staudinger and Roberts (2001)	L	
	6.3×10^{-3}	5200	Hauff et al. (1998)	M	
	1.0×10^{-2}	5800	Kames and Schurath (1992)	M	
	1.0×10^{-2}	6000	Luke et al. (1989)	M	
	8.5×10^{-3}		Hauff et al. (1998)	V	
	1.7×10^{-2}		Hilal et al. (2008)	Q	
		5900	Kühne et al. (2005)	Q	
		5800	Kühne et al. (2005)	?	
2-butyl nitrate	6.4×10^{-3}	5400	Sander et al. (2011)	L	
$C_4H_9ONO_2$	6.4×10^{-3}	5400	Sander et al. (2006)	L	
[924-52-7]	6.4×10^{-3}	6100	Staudinger and Roberts (2001)	L	
	4.4×10^{-3}		Hauff et al. (1998)	M	
	6.4×10^{-3}	5400	Kames and Schurath (1992)	M	
	6.3×10^{-3}	5600	Luke et al. (1989)	M	
	6.4×10^{-3}		Hauff et al. (1998)	V	
		4900	Kühne et al. (2005)	Q	
		5400	Kühne et al. (2005)	?	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2-methyl-1-nitropropane	7.0×10^{-3}	5200	Kames and Schurath (1992)	M	
$C_4H_9ONO_2$	1.6×10^{-2}		Hilal et al. (2008)	Q	
(isobutyl nitrate)					
[543-29-3]					
1-pentyl nitrate	6.6×10^{-3}	6300	Hauff et al. (1998)	M	
$C_5H_{11}ONO_2$	1.2×10^{-2}		Kames and Schurath (1992)	M	9
(amyl nitrate)	4.0×10^{-3}		Hauff et al. (1998)	V	
[1002-16-0]	1.3×10^{-2}		Hilal et al. (2008)	Q	
		6300	Kühne et al. (2005)	Q	
		6300	Kühne et al. (2005)	?	
2-pentyl nitrate	3.7×10^{-3}	6400	Staudinger and Roberts (2001)	L	
$C_5H_{11}ONO_2$	3.7×10^{-3}	5100	Hauff et al. (1998)	M	
[21981-48-6]	3.6×10^{-3}	6300	Kames and Schurath (1992)	M	
	4.8×10^{-3}		Hauff et al. (1998)	V	
	9.5×10^{-3}		Hilal et al. (2008)	Q	
		5300	Kühne et al. (2005)	Q	
		5100	Kühne et al. (2005)	?	
3-pentyl nitrate	3.8×10^{-3}	5300	Hauff et al. (1998)	M	
$C_5H_{13}ONO_2$	4.9×10^{-3}		Hauff et al. (1998)	V	
[82944-59-0]	9.2×10^{-3}		Hilal et al. (2008)	Q	
		5300	Kühne et al. (2005)	Q	
		5300	Kühne et al. (2005)	?	
3-methyl-1-butanol nitrate	5.0×10^{-3}	5900	Hauff et al. (1998)	M	
$C_5H_{11}ONO_2$	1.2×10^{-2}		Hilal et al. (2008)	Q	
(isoamyl nitrate)		6300	Kühne et al. (2005)	Q	
[543-87-3]		5900	Kühne et al. (2005)	?	
pentaerythritol tetranitrate	7.6×10^{3}		HSDB (2015)	V	
$C_5H_8N_4O_{12}$	8.2×10^{5}		Zhang et al. (2010)	Q	107, 108
[78-11-5]	1.1×10^{4}		Zhang et al. (2010)	Q	107, 109
	7.9×10^{4}		Zhang et al. (2010)	Q	107, 110
	3.6×10^{3}		Zhang et al. (2010)	Q	107, 111
1-hexyl nitrate	7.6×10^{-3}	6700	Hauff et al. (1998)	M	
$C_6H_{13}ONO_2$	3.6×10^{-3}		Hauff et al. (1998)	V	
[20633-11-8]	9.5×10^{-3}		Hilal et al. (2008)	Q	
		6600	Kühne et al. (2005)	Q	
		6700	Kühne et al. (2005)	?	
2-nitrooxyethanol	3.9×10^{2}		Sander et al. (2011)	L	
$HOC_2H_4ONO_2$	3.9×10^{2}		Sander et al. (2006)	L	
[16051-48-2]	3.8×10^{2}	8600	Shepson et al. (1996)	M	
	3.9×10^{2}		Kames and Schurath (1992)	M	9
	1.7×10^{2}		Hilal et al. (2008)	Q	
		9200	Kühne et al. (2005)	Q	
		8700	Kühne et al. (2005)	?	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1-nitrooxy-2-propanol	6.6×10^{1}		Sander et al. (2011)	L	
$C_3H_7O_4N$	6.6×10^{1}		Sander et al. (2006)	L	
[20266-65-3]	1.1×10^{2}	10000	Shepson et al. (1996)	M	
	6.6×10^{1}		Kames and Schurath (1992)	M	225, 9
	7.2×10^{1}		Kames and Schurath (1992)	M	225, 9
	9.5×10^{1}		Hilal et al. (2008)	Q	
2-nitrooxy-1-propanol	7.2×10^{1}		Sander et al. (2011)	L	
$C_3H_7O_4N$	7.2×10^{1}		Sander et al. (2006)	L	
[20266-74-4]	4.4×10^{1}	8800	Shepson et al. (1996)	M	
	6.6×10^{1}		Kames and Schurath (1992)	M	225, 9
	7.2×10^{1}		Kames and Schurath (1992)	M	225, 9
	8.6×10^{1}		Hilal et al. (2008)	Q	
1-nitrooxy-2-butanol	8.9×10^{1}		Treves et al. (2000)	M	119
$C_4H_9O_4N$	5.7×10^{1}	9200	Shepson et al. (1996)	M	
[147794-11-4]	6.1×10^{1}		Hilal et al. (2008)	Q	
2-nitrooxy-1-butanol	8.8×10^{1}		Treves et al. (2000)	M	119
$C_4H_9O_4N$	5.9×10^{1}	9600	Shepson et al. (1996)	M	
[147794-12-5]	6.0×10^{1}		Hilal et al. (2008)	Q	
2-nitrooxy-3-butanol	1.0×10^{2}	9500	Shepson et al. (1996)	M	
$C_4H_9O_4N$	5.4×10^{1}		Hilal et al. (2008)	Q	
[147794-10-3]					
3-nitrooxy-1-butanol	1.4×10^{2}		Treves et al. (2000)	M	119
$C_4H_9O_4N$					
4-nitrooxy-1-butanol	2.9×10^{2}		Treves et al. (2000)	M	119
$C_4H_9O_4N$					
4-nitrooxy-2-butanol	1.3×10^{2}		Treves et al. (2000)	M	119
$C_4H_9O_4N$					
4-nitrooxy-1-pentanol	2.0×10^{2}		Treves et al. (2000)	M	119
$C_5H_{11}O_4N$					
5-nitrooxy-2-pentanol	3.6×10^{2}		Treves et al. (2000)	M	119
$C_5H_{11}O_4N$					
1-nitrooxy-2-propanone	1.0×10^{1}		Sander et al. (2011)	L	
$CH_3COCH_2ONO_2$	1.0×10^{1}		Sander et al. (2006)	L	
(nitrooxyacetone)	1.0×10^{1}		Kames and Schurath (1992)	M	9
[6745-71-7]	1.2×10^{2}		Hilal et al. (2008)	Q	
1,2-ethanediol dinitrate	6.3		Sander et al. (2011)	L	
$O_3NCH_2CH_2ONO_2$	6.3		Sander et al. (2006)	L	
(1,2-ethane dinitrate)	7.8×10^{-1}		Fischer and Ballschmiter (1998b)	M	226
[628-96-6]	6.3		Kames and Schurath (1992)	M	9
	8.2		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1,2-propanediol dinitrate	1.7		Sander et al. (2011)	L	
$C_3H_6(ONO_2)_2$	1.7		Sander et al. (2006)	L	
(1,2-propane dinitrate)	3.2×10^{-1}		Fischer and Ballschmiter (1998b)	M	226
[6423-43-4]	1.7		Kames and Schurath (1992)	M	9
	1.0×10^{1}		HSDB (2015)	Q	38
	2.7		Hilal et al. (2008)	Q	
1,3-propanediol dinitrate	1.3		Fischer and Ballschmiter (1998b)	M	226
$C_3H_6N_2O_6$	4.4		Hilal et al. (2008)	Q	
[3457-90-7]					
1,2,3-propanetriol trinitrate	2.3×10^{2}		HSDB (2015)	V	
$C_3H_5N_3O_9$	3.9×10^{1}		Hilal et al. (2008)	Q	
(nitroglycerin)					
[55-63-0]					
1,2-butanediol dinitrate	2.1×10^{-1}		Fischer and Ballschmiter (1998b)	M	226
$C_4H_8N_2O_6$					
[20820-41-1]					
1,3-butanediol dinitrate	5.7×10^{-1}		Fischer and Ballschmiter (1998b)	M	226
$C_4H_8N_2O_6$					
[6423-44-5]					
1,4-butanediol dinitrate	1.6		Fischer and Ballschmiter (1998b)	M	226
$C_4H_8N_2O_6$	2.7		Hilal et al. (2008)	Q	
[3457-91-8]					
2,3-butanediol dinitrate	1.2×10^{-1}		Fischer and Ballschmiter (1998b)	M	226
$C_4H_8N_2O_6$					
[6423-45-6]					
1,2-pentanediol dinitrate	1.3×10^{-1}		Fischer and Ballschmiter (1998b)	M	226
$C_5H_{10}N_2O_6$					
[89365-05-9]					
1,4-pentanediol dinitrate	3.9×10^{-1}		Fischer and Ballschmiter (1998b)	M	226
$C_5H_{10}N_2O_6$					
[25385-63-1]					
1,5-pentanediol dinitrate	1.2		Fischer and Ballschmiter (1998b)	M	226
$C_5H_{10}N_2O_6$					
[3457-92-9]					
(2R,4S)-2,4-pentanediol dinitrate	2.2×10^{-1}		Fischer and Ballschmiter (1998b)	M	226
$C_5H_{10}N_2O_6$					
(*cis*-2,4-pentanediol dinitrate)					
[208252-05-5]					
(2R,4R)-2,4-pentanediol dinitrate	1.4×10^{-1}		Fischer and Ballschmiter (1998b)	M	226
$C_5H_{10}N_2O_6$					
(*trans*-2,4-pentanediol dinitrate)					
[208252-04-4]					
1,2-hexanediol dinitrate	9.6×10^{-2}		Fischer and Ballschmiter (1998b)	M	226
$C_6H_{12}N_2O_6$					
[110539-07-6]					

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1,5-hexanediol dinitrate $C_6H_{12}N_2O_6$ [206443-83-6]	2.7×10^{-1}		Fischer and Ballschmiter (1998b)	M	226
1,6-hexanediol dinitrate $C_6H_{12}N_2O_6$ [3457-93-0]	1.5		Fischer and Ballschmiter (1998b)	M	226
2,5-hexanediol dinitrate $C_6H_{12}N_2O_6$ [99115-63-6]	3.1×10^{-1}		Fischer and Ballschmiter (1998b)	M	226
(1R,2S)-1,2-cyclohexanediol dinitrate $C_6H_{10}N_2O_6$ (*cis*-1,2-cyclohexanediol dinitrate) [32342-28-2]	1.3		Fischer and Ballschmiter (1998b)	M	226
(1R,2R)-1,2-cyclohexanediol dinitrate $C_6H_{10}N_2O_6$ (*trans*-1,2-cyclohexanediol dinitrate) [32342-29-3]	5.2×10^{-1}		Fischer and Ballschmiter (1998b)	M	226
(1R,3S)-1,3-cyclohexanediol dinitrate $C_6H_{10}N_2O_6$ (*cis*-1,3-cyclohexanediol dinitrate) [170994-36-2]	3.4		Fischer and Ballschmiter (1998b)	M	226
(1R,3R)-1,3-cyclohexanediol dinitrate $C_6H_{10}N_2O_6$ (*trans*-1,3-cyclohexanediol dinitrate) [170994-41-9]	6.8×10^{-1}		Fischer and Ballschmiter (1998b)	M	226
1,7-heptanediol dinitrate $C_7H_{14}N_2O_6$ [3457-94-1]	1.1		Fischer and Ballschmiter (1998b)	M	226
(1R,2R)-1,2-cycloheptanediol dinitrate $C_7H_{12}N_2O_6$ (*trans*-1,2-cycloheptanediol dinitrate) [208252-06-6]	8.8×10^{-1}		Fischer and Ballschmiter (1998b)	M	226
1,2-octanediol dinitrate $C_8H_{16}N_2O_6$ [121222-48-8]	5.2×10^{-2}		Fischer and Ballschmiter (1998b)	M	226
1,8-octanediol dinitrate $C_8H_{16}N_2O_6$ [3457-95-2]	7.8×10^{-1}		Fischer and Ballschmiter (1998b)	M	226
1,2-decanediol dinitrate $C_{10}H_{20}N_2O_6$ [60123-40-2]	2.0×10^{-2}		Fischer and Ballschmiter (1998b)	M	226
1,10-decanediol dinitrate $C_{10}H_{20}N_2O_6$ [3457-97-4]	4.3×10^{-1}		Fischer and Ballschmiter (1998b)	M	226

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
diethylene glycol dinitrate	2.5×10^{1}		HSDB (2015)	V	
$C_4H_8N_2O_7$	1.1×10^{2}		Hilal et al. (2008)	Q	
[693-21-0]					
peroxyacetyl nitrate	2.9×10^{-2}	5700	Warneck and Williams (2012)	L	
$CH_3COOONO_2$	2.8×10^{-2}	5700	Sander et al. (2011)	L	
(PAN)	2.8×10^{-2}	5700	Sander et al. (2006)	L	
[2278-22-0]	2.9×10^{-2}	5800	Leu and Zhang (1999)	L	
	4.0×10^{-2}		Kames and Schurath (1995)	M	9
	2.8×10^{-2}	6500	Kames et al. (1991)	M	
	4.9×10^{-2}		Holdren et al. (1984)	M	147
	3.6×10^{-2}		Gaffney and Senum (1984)	X	153
	2.9×10^{-2}	5900	Pandis and Seinfeld (1989)	C	
	3.6×10^{-2}		Schwartz (1986)	C	31
	2.2		Hilal et al. (2008)	Q	
		4800	Kühne et al. (2005)	Q	
		6300	Kühne et al. (2005)	?	
			Warneck et al. (1996)	?	227
			Schurath et al. (1996)	W	228
peroxypropionyl nitrate	2.9×10^{-2}		Kames and Schurath (1995)	M	9
$C_2H_5COOONO_2$			Warneck et al. (1996)	?	227
(PPN)			Schurath et al. (1996)	W	229
[5796-89-4]					
nitro butaneperoxoate	2.3×10^{-2}		Kames and Schurath (1995)	M	9
$C_3H_7COOONO_2$			Warneck et al. (1996)	?	227
(PnBN)			Schurath et al. (1996)	W	230
[27746-48-1]					
peroxy-2-propenoyl nitrate	1.7×10^{-2}		Kames and Schurath (1995)	M	9
$CH_2C(CH_3)COOONO_2$			Warneck et al. (1996)	W	227
(peroxymethacryloyl nitrate; MPAN)			Schurath et al. (1996)	W	231
[88181-75-3]					
peroxy-isobutyryl nitrate	9.9×10^{-3}		Kames and Schurath (1995)	M	9
$C_3H_7COOONO_2$			Warneck et al. (1996)	?	227
(PiBN)			Schurath et al. (1996)	W	232
[65424-60-4]					
Nitriles with oxygen (C, H, O, N)					
isocyanic acid	2.1×10^{-1}		Roberts et al. (2011)	M	
HNCO					
[75-13-8]					
hydroxyacetonitrile	1.3		HSDB (2015)	Q	38
C_2H_3NO					
(glycolonitrile)					
[107-16-4]					
2-hydroxypropanenitrile	1.0		HSDB (2015)	Q	38
C_3H_5NO					
[78-97-7]					

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
3-hydroxypropanenitrile C_3H_5NO (ethylene cyanohydrin) [109-78-4]	2.3×10^{4}		HSDB (2015)	V	
cyanoethanoic acid, ethyl ester $C_5H_7NO_2$ [105-56-6]	3.4×10^{1} 7.7×10^{1}		HSDB (2015) Hilal et al. (2008)	V Q	
2-hydroxybenzoic acid nitrile C_7H_5NO (2-cyanophenol) [611-20-1]	2.8×10^{1}		Hilal et al. (2008)	Q	
3-hydroxybenzoic acid nitrile C_7H_5NO (3-cyanophenol) [873-62-1]	4.0×10^{4} 3.3×10^{5} 3.8×10^{3}		Hilal et al. (2008) Nirmalakhandan et al. (1997) Abraham et al. (1990)	Q Q ?	
4-hydroxybenzoic acid nitrile C_7H_5NO (4-cyanophenol) [767-00-0]	1.4×10^{4} 3.3×10^{5} 1.2×10^{4}		Hilal et al. (2008) Nirmalakhandan et al. (1997) Abraham et al. (1990)	Q Q ?	
1,1',1''-nitrilotris-2-propanol $C_9H_{21}NO_3$ (triisopropanolamine) [122-20-3]	1.0×10^{6}		HSDB (2015)	Q	182
cyometrinil $C_{10}H_7N_3O$ [78370-21-5]	1.1×10^{4}		MacBean (2012a)	?	
fenpropathrin $C_{22}H_{23}NO_3$ [39515-41-8]	5.5×10^{-2} 1.7×10^{1}		HSDB (2015) Siebers and Mattusch (1996)	V V	 9
Nitro compounds (RNO_2)					
nitromethane CH_3NO_2 [75-52-5]	3.4×10^{-1} 3.4×10^{-1} 3.5×10^{-1} 3.6×10^{-1} 4.5×10^{-1} 3.5×10^{-1} 3.4×10^{-1} 7.3×10^{-2} 3.4×10^{-2} 3.6×10^{-2} 3.6×10^{-1}	4000 4000 4000 3700 3500 	Sander et al. (2011) Sander et al. (2006) Beneš and Dohnal (1999) Park et al. (1987) Rohrschneider (1973) Gaffney and Senum (1984) Hilal et al. (2008) Kühne et al. (2005) Nirmalakhandan et al. (1997) Kühne et al. (2005) Yaws (1999) Yaws and Yang (1992) Abraham et al. (1990)	L L M M M X Q Q Q ? ? ? ?	 153 92
nitromethane-13C CH_3NO_2 [32480-00-5]	4.8×10^{-1}	5000	Hiatt (2013)	M	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
nitroethane	2.1×10^{-1}	4400	Sander et al. (2011)	L	
$C_2H_5NO_2$	2.1×10^{-1}	4400	Sander et al. (2006)	L	
[79-24-3]	2.2×10^{-1}	4400	Beneš and Dohnal (1999)	M	
	1.4		Friant and Suffet (1979)	M	23
	1.9×10^{-1}		Hwang et al. (1992)	V	
	2.1×10^{-1}		Hine and Mookerjee (1975)	V	
	2.1×10^{-1}		Gaffney and Senum (1984)	X	153
	2.2×10^{-1}		Hilal et al. (2008)	Q	
		4100	Kühne et al. (2005)	Q	
	6.1×10^{-2}		Nirmalakhandan et al. (1997)	Q	
		4200	Kühne et al. (2005)	?	
	2.1×10^{-1}		Abraham et al. (1990)	?	
1-nitropropane	1.3×10^{-1}	4700	Sander et al. (2011)	L	
$C_3H_7NO_2$	1.3×10^{-1}	4700	Sander et al. (2006)	L	
[108-03-2]	1.3×10^{-1}	4700	Beneš and Dohnal (1999)	M	
	1.1×10^{-1}		Hine and Mookerjee (1975)	V	
	1.5×10^{-1}		Hilal et al. (2008)	Q	
		4400	Kühne et al. (2005)	Q	
	4.7×10^{-2}		Nirmalakhandan et al. (1997)	Q	
		4400	Kühne et al. (2005)	?	
	1.6×10^{-1}		Yaws and Yang (1992)	?	92, 9
	1.1×10^{-1}		Abraham et al. (1990)	?	
2-nitropropane	8.3×10^{-2}	4500	Sander et al. (2011)	L	
$CH_3CH(NO_2)CH_3$	8.3×10^{-2}	4500	Sander et al. (2006)	L	
[79-46-9]	8.4×10^{-2}	4500	Beneš and Dohnal (1999)	M	
	8.3×10^{-2}		HSDB (2015)	V	
	8.0×10^{-2}		Hine and Mookerjee (1975)	V	
	7.2×10^{-2}		Hilal et al. (2008)	Q	
		4400	Kühne et al. (2005)	Q	
	4.1×10^{-2}		Nirmalakhandan et al. (1997)	Q	
		4400	Kühne et al. (2005)	?	
	1.1×10^{-1}		Yaws and Yang (1992)	?	92, 9
	8.0×10^{-2}		Abraham et al. (1990)	?	
1-nitrobutane	9.7×10^{-2}		Hilal et al. (2008)	Q	
$C_4H_9NO_2$	3.7×10^{-2}		Nirmalakhandan et al. (1997)	Q	
[627-05-4]	7.5×10^{-2}		Abraham et al. (1990)	?	
tert-butylnitrite	7.9×10^{-3}		Hilal et al. (2008)	Q	
$C_4H_9NO_2$					
[540-80-7]					
1-nitropentane	4.7×10^{-2}		Amoore and Buttery (1978)	V	
$C_5H_{11}NO_2$	6.0×10^{-2}		Hilal et al. (2008)	Q	
[628-05-7]	2.9×10^{-2}		Nirmalakhandan et al. (1997)	Q	
	4.7×10^{-2}		Abraham et al. (1990)	?	
tris(hydroxymethyl)ethane trinitrate	2.2×10^{3}		Zhang et al. (2010)	Q	107, 108
$C_5H_9N_3O_9$	1.4×10^{2}		Zhang et al. (2010)	Q	107, 109
[3032-55-1]	2.4×10^{3}		Zhang et al. (2010)	Q	107, 110
	3.4×10^{1}		Zhang et al. (2010)	Q	107, 111

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1-nitrohexane $C_6H_{13}NO_2$ [646-14-0]	4.5×10^{-2}		Hilal et al. (2008)	Q	
nitrocyclohexane $C_6H_{11}NO_2$ [1122-60-7]	2.4×10^{-1}		Hilal et al. (2008)	Q	
2-nitroethanol $C_2H_5NO_3$ [625-48-9]	1.6×10^{2}		Hilal et al. (2008)	Q	
1-nitro-2-propanol $C_3H_7NO_3$ [3156-73-8]	7.9×10^{1}		Hilal et al. (2008)	Q	
2-nitro-1-propanol $C_3H_7NO_3$ [2902-96-7]	9.9×10^{1}		Hilal et al. (2008)	Q	
1-nitro-2-butanol $C_4H_9NO_3$ [3156-74-9]	7.3×10^{1}		Hilal et al. (2008)	Q	
2-nitro-1-butanol $C_4H_9NO_3$ [609-31-4]	7.5×10^{1}		Hilal et al. (2008)	Q	
3-nitro-2-butanol $C_4H_9NO_3$ [6270-16-2]	5.7×10^{1}		Hilal et al. (2008)	Q	
nitroguanidine $CH_4N_4O_2$ [556-88-7]	2.2×10^{10}		HSDB (2015)	V	
tetranitromethane CN_4O_8 [509-14-8]	4.1×10^{-3}		HSDB (2015)	V	
N-methyl-N'-nitro-N-nitrosoguanidine $C_2H_5N_5O_3$ [70-25-7]	8.2×10^{6}		HSDB (2015)	Q	38
2-(hydroxymethyl)-2-nitro-1,3-propanediol $C_4H_9NO_5$ [126-11-4]	2.1×10^{6}		HSDB (2015)	Q	38
nitrobenzene $C_6H_5NO_2$ [98-95-3]	6.4×10^{-1}	7500	Hiatt (2013)	M	
	1.4×10^{-1}		Zhang et al. (2013)	M	
	2.3×10^{-2}	11000	Dewulf et al. (1999)	M	233
	1.2		Altschuh et al. (1999)	M	
	1.4×10^{-1}		Hellmann (1987)	M	31
	4.1×10^{-1}		Warner et al. (1980)	M	
	4.8×10^{-1}	6400	Bernauer et al. (2006)	V	
	7.7×10^{-1}		Mackay et al. (2006d)	V	
	4.2×10^{-1}		Lide and Frederikse (1995)	V	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	7.7×10^{-1}		Mackay et al. (1995)	V	
	4.6×10^{-1}		Hwang et al. (1992)	V	
	7.8×10^{-1}		Yoshida et al. (1983)	V	
	4.3×10^{-1}		Warner et al. (1980)	V	
	4.2×10^{-1}		Hine and Mookerjee (1975)	V	
	4.7×10^{-1}	4500	Goldstein (1982)	X	116
	4.2×10^{-1}		Hilal et al. (2008)	C	
	4.1×10^{-1}		Schüürmann (2000)	C	7
	7.5×10^{-1}		Mackay et al. (1995)	C	
	7.5×10^{-1}		Ryan et al. (1988)	C	
	4.1×10^{-1}		Shen (1982)	C	
	2.2×10^{-1}		Hilal et al. (2008)	Q	
		4600	Kühne et al. (2005)	Q	
	3.3		Nirmalakhandan et al. (1997)	Q	
		5600	Kühne et al. (2005)	?	
	4.2×10^{-1}		Abraham et al. (1990)	?	
nitrobenzene-d5 $C_6D_5NO_2$ [4165-60-0]	8.5×10^{-1}	7500	Hiatt (2013)	M	
2-nitrotoluene $C_6H_4(NO_2)CH_3$ [88-72-2]	7.9×10^{-1}		Altschuh et al. (1999)	M	
	2.7×10^{-1}		Mackay et al. (2006d)	V	
	1.9×10^{-1}		Schüürmann (2000)	V	
	1.8×10^{-1}		Lide and Frederikse (1995)	V	
	2.7×10^{-1}		Mackay et al. (1995)	V	
	1.7×10^{-1}		Hine and Mookerjee (1975)	V	
	7.7×10^{-2}	2900	Goldstein (1982)	X	116
	4.2×10^{-1}		Zhang et al. (2010)	Q	107, 108
	2.4×10^{-1}		Zhang et al. (2010)	Q	107, 109
	2.5×10^{-1}		Zhang et al. (2010)	Q	107, 110
	1.8×10^{-1}		Zhang et al. (2010)	Q	107, 111
	4.2×10^{-1}		Zhang et al. (2010)	Q	107, 108
	2.4×10^{-1}		Zhang et al. (2010)	Q	107, 109
	2.2×10^{-1}		Zhang et al. (2010)	Q	107, 110
	1.8×10^{-1}		Zhang et al. (2010)	Q	107, 111
	1.4×10^{-1}		Hilal et al. (2008)	Q	
		4900	Kühne et al. (2005)	Q	
	2.3		Nirmalakhandan et al. (1997)	Q	
		5900	Kühne et al. (2005)	?	
	1.7×10^{-1}		Abraham et al. (1990)	?	
3-nitrotoluene $C_6H_4(NO_2)CH_3$ [99-08-1]	1.1		Altschuh et al. (1999)	M	
	2.8×10^{-1}		Li and Carr (1993)	M	
	1.3×10^{-1}		Mackay et al. (2006d)	V	
	1.3×10^{-1}		Mackay et al. (1995)	V	
	1.4×10^{-1}		Hine and Mookerjee (1975)	V	
	1.4×10^{-1}	3200	Goldstein (1982)	X	116
	4.2×10^{-1}		Zhang et al. (2010)	Q	107, 108
	2.5×10^{-1}		Zhang et al. (2010)	Q	107, 109
	4.1×10^{-1}		Zhang et al. (2010)	Q	107, 110
	1.8×10^{-1}		Zhang et al. (2010)	Q	107, 111
	1.8×10^{-1}		Hilal et al. (2008)	Q	
		4900	Kühne et al. (2005)	Q	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	2.3		Nirmalakhandan et al. (1997)	Q	
		4900	Kühne et al. (2005)	?	
	1.4×10^{-1}		Abraham et al. (1990)	?	
4-nitrotoluene	1.8		Altschuh et al. (1999)	M	
$C_6H_4(NO_2)CH_3$	2.8		Mackay et al. (2006d)	V	
[99-99-0]	2.0×10^{-1}		Lide and Frederikse (1995)	V	
	2.8		Mackay et al. (1995)	V	
	1.6×10^{-1}	3100	Goldstein (1982)	X	116
	4.2×10^{-1}		Zhang et al. (2010)	Q	107, 108
	2.8×10^{-1}		Zhang et al. (2010)	Q	107, 109
	9.0×10^{-1}		Zhang et al. (2010)	Q	107, 110
	1.8×10^{-1}		Zhang et al. (2010)	Q	107, 111
	2.0×10^{-1}		Hilal et al. (2008)	Q	
		4900	Kühne et al. (2005)	Q	
		3800	Kühne et al. (2005)	?	
1,2-dinitrobenzene	1.9×10^{2}		HSDB (2015)	V	
$C_6H_4N_2O_4$	1.2×10^{2}		Zhang et al. (2010)	Q	107, 108
[528-29-0]	3.2×10^{1}		Zhang et al. (2010)	Q	107, 109
	2.6×10^{1}		Zhang et al. (2010)	Q	107, 110
	2.7×10^{1}		Zhang et al. (2010)	Q	107, 111
1,3-dinitrobenzene	2.0×10^{2}		Altschuh et al. (1999)	M	
$C_6H_4N_2O_4$			Mackay et al. (2006d)	V	221
[99-65-0]	5.0×10^{2}		Mackay et al. (1995)	V	
	3.9×10^{1}		Smith et al. (1981a)	V	
1,4-dinitrobenzene	2.0×10^{-1}		Mackay et al. (2006d)	V	
$C_6H_4N_2O_4$	2.0×10^{-1}		Mackay et al. (1995)	V	
[100-25-4]	1.2×10^{2}		HSDB (2015)	Q	38
1,3,5-trinitrobenzene $C_6H_3N_3O_6$ [99-35-4]	1.5×10^{3}		HSDB (2015)	V	
2-nitrobenzenamine	1.7×10^{2}		Altschuh et al. (1999)	M	
$C_6H_6N_2O_2$	1.0×10^{2}		Abraham et al. (1994a)	R	
(2-nitroaniline)	3.1×10^{1}		Hilal et al. (2008)	Q	
[88-74-4]	4.5×10^{2}		Nirmalakhandan et al. (1997)	Q	
3-nitrobenzenamine	6.9×10^{2}		Meylan and Howard (1991)	V	
$C_6H_6N_2O_2$	1.2×10^{3}		Abraham et al. (1994a)	R	
(3-nitroaniline)	2.7×10^{3}		Hilal et al. (2008)	Q	
[99-09-2]	4.4×10^{2}		Nirmalakhandan et al. (1997)	Q	
	1.3×10^{3}		Meylan and Howard (1991)	Q	
	1.2×10^{3}		HSDB (2015)	?	170
4-nitrobenzenamine	8.6×10^{3}		Altschuh et al. (1999)	M	
$C_6H_6N_2O_2$	1.4×10^{4}		Abraham et al. (1994a)	R	
(4-nitroaniline)	2.2×10^{3}		Hilal et al. (2008)	Q	
[100-01-6]	4.4×10^{2}		Nirmalakhandan et al. (1997)	Q	
2,4-dinitrobenzenamine $C_6H_5N_3O_4$ [97-02-9]	6.5×10^{4}		HSDB (2015)	Q	216

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1-methyl-2,3-dinitrobenzene	1.1×10^{2}		HSDB (2015)	Q	182
$C_7H_6N_2O_4$	1.1×10^{2}		Zhang et al. (2010)	Q	107, 108
(2,3-dinitrotoluene; 2,3-DNT)	2.2×10^{1}		Zhang et al. (2010)	Q	107, 109
[602-01-7]	9.5		Zhang et al. (2010)	Q	107, 110
	1.5×10^{1}		Zhang et al. (2010)	Q	107, 111
	1.1×10^{2}		Zhang et al. (2010)	Q	107, 108
	2.3×10^{1}		Zhang et al. (2010)	Q	107, 109
	1.1×10^{1}		Zhang et al. (2010)	Q	107, 110
	1.5×10^{1}		Zhang et al. (2010)	Q	107, 111
1-methyl-2,4-dinitrobenzene	1.8×10^{2}		Altschuh et al. (1999)	M	
$C_7H_6N_2O_4$	1.1×10^{1}		Mackay et al. (2006d)	V	
(2,4-dinitrotoluene; 2,4-DNT)	1.0×10^{2}		Schüürmann (2000)	V	
[121-14-2]	1.1×10^{1}		Mackay et al. (1995)	V	
	6.3×10^{1}		Smith et al. (1981a)	V	
	2.1×10^{-1}	2900	Goldstein (1982)	X	116
	2.2		Mackay et al. (1995)	C	
	3.1×10^{-2}		Ryan et al. (1988)	C	
	1.1×10^{2}		Zhang et al. (2010)	Q	107, 108
	1.6×10^{1}		Zhang et al. (2010)	Q	107, 109
	5.0		Zhang et al. (2010)	Q	107, 110
	1.5×10^{1}		Zhang et al. (2010)	Q	107, 111
2-methyl-1,4-dinitrobenzene	1.8×10^{1}		HSDB (2015)	V	
$C_7H_6N_2O_4$	1.1×10^{2}		Zhang et al. (2010)	Q	107, 108
(2,5-dinitrotoluene; 2,5-DNT)	1.8×10^{1}		Zhang et al. (2010)	Q	107, 109
[619-15-8]	1.4		Zhang et al. (2010)	Q	107, 110
	1.5×10^{1}		Zhang et al. (2010)	Q	107, 111
2-methyl-1,3-dinitrobenzene	1.5×10^{1}		HSDB (2015)	V	
$C_7H_6N_2O_4$	1.4×10^{1}		Mackay et al. (2006d)	V	
(2,6-dinitrotoluene; 2,6-DNT)	1.4×10^{1}		Mackay et al. (1995)	V	
[606-20-2]	1.2		Mackay et al. (1995)	C	
	3.1×10^{-2}		Ryan et al. (1988)	C	
	1.1×10^{2}		Zhang et al. (2010)	Q	107, 108
	2.1×10^{1}		Zhang et al. (2010)	Q	107, 109
	4.3		Zhang et al. (2010)	Q	107, 110
	1.5×10^{1}		Zhang et al. (2010)	Q	107, 111
4-methyl-1,2-dinitrobenzene	1.1×10^{2}		HSDB (2015)	Q	182
$C_7H_6N_2O_4$	1.1×10^{2}		Zhang et al. (2010)	Q	107, 108
(3,4-dinitrotoluene; 3,4-DNT)	3.9×10^{1}		Zhang et al. (2010)	Q	107, 109
[610-39-9]	3.1×10^{1}		Zhang et al. (2010)	Q	107, 110
	1.5×10^{1}		Zhang et al. (2010)	Q	107, 111
1-methyl-2,4,6-trinitrobenzene	4.7×10^{2}		HSDB (2015)	V	
$C_7H_5N_3O_6$	5.4×10^{2}		Schüürmann (2000)	V	
(2,4,6-trinitrotoluene; TNT)		6200	Kühne et al. (2005)	Q	
[118-96-7]		6400	Kühne et al. (2005)	?	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,4,6-trinitro-1,3-dimethyl-5-*tert*-butylbenzene	3.2×10^{-1}		Lee et al. (2012)	M	
$C_{12}H_{15}N_3O_6$	1.7×10^{-2}		Amoore and Buttery (1978)	V	
(musk xylene)	1.3×10^{3}		HSDB (2015)	Q	38
[81-15-2]	9.5×10^{3}		Zhang et al. (2010)	Q	107, 108
	5.6		Zhang et al. (2010)	Q	107, 109
	4.8×10^{-2}		Zhang et al. (2010)	Q	107, 110
	1.5×10^{2}		Zhang et al. (2010)	Q	107, 111
2-nitrophenol	1.4	5700	Guo and Brimblecombe (2007)	M	
$HOC_6H_4(NO_2)$	8.3×10^{-1}	6300	Harrison et al. (2002)	M	
[88-75-5]	8.9×10^{-1}	6300	Müller and Heal (2001)	M	
	7.7×10^{-1}		Tremp et al. (1993)	M	9
	6.1×10^{-1}		Mackay et al. (2006c)	V	
	2.9		Lide and Frederikse (1995)	V	
	7.9×10^{-1}		Riederer (1990)	V	
	7.3×10^{-1}		Schwarzenbach et al. (1988)	V	9
	2.8		Leuenberger et al. (1985)	V	167
	9.2×10^{-1}		Abraham et al. (1994a)	R	
	6.9×10^{-1}	4600	Goldstein (1982)	X	116
	1.3		Ryan et al. (1988)	C	
	5.3		Hilal et al. (2008)	Q	
		4400	Kühne et al. (2005)	Q	
	1.5×10^{4}		Nirmalakhandan et al. (1997)	Q	
		6300	Kühne et al. (2005)	?	
	7.0×10^{-1}		Abraham et al. (1990)	?	
3-nitrophenol	1.6×10^{2}		Guo and Brimblecombe (2007)	M	234
$HOC_6H_4(NO_2)$	1.0		Lide and Frederikse (1995)	V	
[554-84-7]	4.9×10^{3}		Gaffney and Senum (1984)	X	153
	9.5×10^{3}		Hilal et al. (2008)	Q	
	1.5×10^{4}		Nirmalakhandan et al. (1997)	Q	
	4.6×10^{3}		Abraham et al. (1990)	?	
4-nitrophenol	2.1×10^{2}		Guo and Brimblecombe (2007)	M	234
$HOC_6H_4(NO_2)$	7.7×10^{2}		Tremp et al. (1993)	M	9
[100-02-7]	3.0×10^{2}		Lide and Frederikse (1995)	V	
	2.0×10^{4}		Riederer (1990)	V	
	3.0×10^{2}		Schwarzenbach et al. (1988)	V	9
	9.4×10^{4}		Yoshida et al. (1983)	V	
	2.6×10^{4}	9100	Parsons et al. (1971)	T	168
	9.8	6000	Goldstein (1982)	X	116
	1.6		Ryan et al. (1988)	C	
	6.1×10^{3}		Hilal et al. (2008)	Q	
	1.5×10^{4}		Nirmalakhandan et al. (1997)	Q	
	2.6×10^{4}		Abraham et al. (1990)	?	
3-methyl-2-nitrophenol	3.2		Tremp et al. (1993)	M	9
$C_7H_7NO_3$	2.4		Schwarzenbach et al. (1988)	V	9
[4920-77-8]		4700	Kühne et al. (2005)	Q	
		4200	Kühne et al. (2005)	?	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
4-methyl-2-nitrophenol	6.7×10^{-1}		Tremp et al. (1993)	M	9
$C_7H_7NO_3$	6.1×10^{-1}		Schwarzenbach et al. (1988)	V	9
[119-33-5]		4700	Kühne et al. (2005)	Q	
		6800	Kühne et al. (2005)	?	
5-methyl-2-nitrophenol	7.7×10^{-1}		Tremp et al. (1993)	M	9
$C_7H_7NO_3$	6.7×10^{-1}		Schwarzenbach et al. (1988)	V	9
[700-38-9]		4700	Kühne et al. (2005)	Q	
		5600	Kühne et al. (2005)	?	
6-methyl-2-nitrophenol	2.9×10^{-1}		Tremp et al. (1993)	M	9
$C_7H_7NO_3$		4700	Kühne et al. (2005)	Q	
[13073-29-5]		5200	Kühne et al. (2005)	?	
3-methyl-4-nitrophenol $C_7H_7NO_3$ [2581-34-2]	6.2×10^{2}		Tremp et al. (1993)	M	9
4-methoxy-2-nitrophenol	5.3		Tremp et al. (1993)	M	9
$C_7H_7NO_4$	2.3×10^{-1}		Schwarzenbach et al. (1988)	V	9
[1568-70-3]		4900	Kühne et al. (2005)	Q	
		6600	Kühne et al. (2005)	?	
4-hydroxy-3-nitro-benzaldehyde $C_7H_5NO_4$ [3011-34-5]	9.4		Schwarzenbach et al. (1988)	V	9
2,4-dinitrophenol	1.1×10^{2}		Tremp et al. (1993)	M	9
$C_6H_4N_2O_5$	3.5×10^{1}		Schwarzenbach et al. (1988)	V	9
[51-28-5]	1.5×10^{4}		Ryan et al. (1988)	C	
	3.6×10^{2}		Zhang et al. (2010)	Q	107, 108
	6.2×10^{2}		Zhang et al. (2010)	Q	107, 109
	4.7		Zhang et al. (2010)	Q	107, 110
	1.3×10^{3}		Zhang et al. (2010)	Q	107, 111
		5000	Kühne et al. (2005)	Q	
		3300	Kühne et al. (2005)	?	
2,5-dinitrophenol $C_6H_4N_2O_5$ [329-71-5]	1.5×10^{1}		Schwarzenbach et al. (1988)	V	9
picramic acid $C_6H_5N_3O_5$ (4,6-dinitro-2-aminophenol) [96-91-3]	1.0×10^{6}		HSDB (2015)	Q	38
4-amino-2-nitrophenol $C_6H_6N_2O_3$ [119-34-6]	4.5×10^{6}		HSDB (2015)	Q	38
2-amino-5-nitrophenol $C_6H_6N_2O_3$ [121-88-0]	1.3×10^{7}		HSDB (2015)	Q	38
2-amino-4-nitrophenol $C_6H_6N_2O_3$ [99-57-0]	4.5×10^{6}		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
4-nitro-*o*-phenylenediamine $C_6H_7N_3O_2$ (4-nitro-1,2-diaminobenzene) [99-56-9]	1.3×10^{6}		HSDB (2015)	Q	38
4-nitrobenzene-1,3-diamine $C_6H_7N_3O_2$ [5131-58-8]	1.7×10^{5}		HSDB (2015)	Q	38
2-nitro-1,4-benzenediamine $C_6H_7N_3O_2$ [5307-14-2]	1.7×10^{5}		HSDB (2015)	Q	38
4-methyl-2,6-dinitrophenol $C_7H_6N_2O_5$ (2,6-dinitro-*p*-cresol) [609-93-8]	1.9×10^{2}		Tremp et al. (1993)	M	9
	3.2×10^{2}		Zhang et al. (2010)	Q	107, 108
	3.4×10^{3}		Zhang et al. (2010)	Q	107, 109
	8.8×10^{1}		Zhang et al. (2010)	Q	107, 110
	8.0		Zhang et al. (2010)	Q	107, 111
		3000	Kühne et al. (2005)	Q	
		3400	Kühne et al. (2005)	?	
2-methyl-4,6-dinitrophenol $C_7H_6N_2O_5$ (6-methyl-2,4-dinitrophenol; 4,6-dinitro-*o*-cresol; DNOC) [534-52-1]	4.3×10^{1}		Tremp et al. (1993)	M	9
	7.0		Warner et al. (1980)	M	
	9.2×10^{1}		Mackay et al. (2006d)	V	
	2.3×10^{1}		Schwarzenbach et al. (1988)	V	9
	9.1×10^{1}		Suntio et al. (1988)	V	9
	7.0		Shen (1982)	C	
	3.2×10^{2}		Zhang et al. (2010)	Q	107, 108
	2.3×10^{3}		Zhang et al. (2010)	Q	107, 109
	1.9×10^{1}		Zhang et al. (2010)	Q	107, 110
	7.2×10^{2}		Zhang et al. (2010)	Q	107, 111
		5400	Kühne et al. (2005)	Q	
		4200	Kühne et al. (2005)	?	
2,4,6-trinitrobenzoic acid $C_7H_3N_3O_8$ [129-66-8]	3.8×10^{8}		HSDB (2015)	Q	38
5-nitrobenzimidazole $C_7H_5N_3O_2$ [94-52-0]	2.7×10^{1}		HSDB (2015)	Q	38
4-nitrobenzoic acid $C_7H_5NO_4$ [62-23-7]	2.6×10^{4}		HSDB (2015)	Q	38
dinitrotoluene $C_7H_6N_2O_4$ [25321-14-6]	1.1×10^{2}		HSDB (2015)	Q	182
1-methyl-3,5-dinitrobenzene $C_7H_6N_2O_4$ [618-85-9]	1.1×10^{2}		HSDB (2015)	Q	182

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1-methoxy-2-nitrobenzene $C_7H_7NO_3$ [91-23-6]	2.3×10^{1}		HSDB (2015)	V	
2-methyl-5-nitrobenzenamine $C_7H_8N_2O_2$ (5-nitro-*o*-toluidine) [99-55-8]	1.2×10^{3}		HSDB (2015)	Q	38
2-methoxy-5-nitrobenzenamine $C_7H_8N_2O_3$ (5-nitro-*o*-anisidine) [99-59-2]	7.6×10^{2}		HSDB (2015)	Q	216
(2-nitroethenyl)benzene $C_8H_7NO_2$ [102-96-5]	2.8		HSDB (2015)	Q	182
1,2-dimethyl-3-nitrobenzene $C_8H_9NO_2$ [83-41-0]	1.9×10^{-1}		HSDB (2015)	Q	182
	3.9×10^{-1}		Zhang et al. (2010)	Q	107, 108
	2.9×10^{-1}		Zhang et al. (2010)	Q	107, 109
	2.6×10^{-1}		Zhang et al. (2010)	Q	107, 110
	1.0×10^{-1}		Zhang et al. (2010)	Q	107, 111
1,2-dimethyl-4-nitrobenzene $C_8H_9NO_2$ [99-51-4]	3.9×10^{-1}		Zhang et al. (2010)	Q	107, 108
	3.1×10^{-1}		Zhang et al. (2010)	Q	107, 109
	8.0×10^{-1}		Zhang et al. (2010)	Q	107, 110
	1.0×10^{-1}		Zhang et al. (2010)	Q	107, 111
1,4-dimethyl-2-nitrobenzene $C_8H_9NO_2$ [89-58-7]	3.9×10^{-1}		Zhang et al. (2010)	Q	107, 108
	2.5×10^{-1}		Zhang et al. (2010)	Q	107, 109
	2.2×10^{-1}		Zhang et al. (2010)	Q	107, 110
	1.0×10^{-1}		Zhang et al. (2010)	Q	107, 111
2,4-dimethyl-1-nitrobenzene $C_8H_9NO_2$ [89-87-2]	3.9×10^{-1}		Zhang et al. (2010)	Q	107, 108
	3.1×10^{-1}		Zhang et al. (2010)	Q	107, 109
	4.3×10^{-1}		Zhang et al. (2010)	Q	107, 110
	1.0×10^{-1}		Zhang et al. (2010)	Q	107, 111
4-methyl-2-nitroanisole $C_8H_9NO_3$ [119-10-8]	7.2		Zhang et al. (2010)	Q	107, 108
	1.6		Zhang et al. (2010)	Q	107, 109
	6.0×10^{1}		Zhang et al. (2010)	Q	107, 110
	2.7		Zhang et al. (2010)	Q	107, 111
1-(1-methylethyl)-4-nitrobenzene $C_9H_{11}NO_2$ [1817-47-6]	2.4×10^{-1}		Zhang et al. (2010)	Q	107, 108
	1.3×10^{-1}		Zhang et al. (2010)	Q	107, 109
	3.9×10^{-1}		Zhang et al. (2010)	Q	107, 110
	1.4×10^{-1}		Zhang et al. (2010)	Q	107, 111
2-(1-methylpropyl)-4,6-dinitrophenol $C_{10}H_{12}N_2O_5$ (dinoseb) [88-85-7]	2.2		Tremp et al. (1993)	M	9
	2.0×10^{-2}		Suntio et al. (1988)	V	9
	1.4×10^{2}		Zhang et al. (2010)	Q	107, 108
	5.2×10^{2}		Zhang et al. (2010)	Q	107, 109
	1.3×10^{2}		Zhang et al. (2010)	Q	107, 110
	4.3×10^{2}		Zhang et al. (2010)	Q	107, 111
		6400	Kühne et al. (2005)	Q	
	1.7×10^{3}		MacBean (2012a)	?	9

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
		7200	Kühne et al. (2005)	?	
			Mackay et al. (2006d)	W	235
1-nitronaphthalene	5.6		Altschuh et al. (1999)	M	
$C_{10}H_7NO_2$			Mackay et al. (2006d)	V	221
[86-57-7]	2.9×10^{-1}		Mackay et al. (1995)	V	
	4.7		Zhang et al. (2010)	Q	107, 108
	4.2		Zhang et al. (2010)	Q	107, 109
	1.6		Zhang et al. (2010)	Q	107, 110
	4.7		Zhang et al. (2010)	Q	107, 111
dinoterb	9.3×10^{-1}		MacBean (2012a)	?	
$C_{10}H_{12}N_2O_5$					
[1420-07-1]					
4-(1-methylpropyl)-2-nitrophenol	1.0×10^{-1}		Tremp et al. (1993)	M	9
$C_{10}H_{13}NO_3$	2.4×10^{-1}		Schwarzenbach et al. (1988)	V	9
(4-*sec*-butyl-2-nitrophenol)		5800	Kühne et al. (2005)	Q	
[3555-18-8]		4300	Kühne et al. (2005)	?	
musk ambrette (artificial)	1.4×10^{1}		HSDB (2015)	Q	38
$C_{12}H_{16}N_2O_5$	7.0×10^{2}		Zhang et al. (2010)	Q	107, 108
[83-66-9]	2.4		Zhang et al. (2010)	Q	107, 109
	2.2×10^{-1}		Zhang et al. (2010)	Q	107, 110
	4.6×10^{1}		Zhang et al. (2010)	Q	107, 111
bis(*p*-nitrophenyl) ether	5.4×10^{3}		Zhang et al. (2010)	Q	107, 108
$C_{12}H_8N_2O_5$	2.3×10^{2}		Zhang et al. (2010)	Q	107, 109
[101-63-3]	3.0×10^{3}		Zhang et al. (2010)	Q	107, 110
	1.1×10^{4}		Zhang et al. (2010)	Q	107, 111
4-nitro-N-phenylbenzenamine	2.4×10^{3}		Zhang et al. (2010)	Q	107, 108
$C_{12}H_{10}N_2O_2$	1.7×10^{2}		Zhang et al. (2010)	Q	107, 109
[836-30-6]	2.9×10^{4}		Zhang et al. (2010)	Q	107, 110
	2.5×10^{3}		Zhang et al. (2010)	Q	107, 111
2-cyclohexyl-4,6-dinitrophenol	1.8×10^{2}		HSDB (2015)	Q	38
$C_{12}H_{14}N_2O_5$					
[131-89-5]					
dipicrylamine	4.3×10^{11}		HSDB (2015)	Q	38
$C_{12}H_5N_7O_{12}$					
(2,2',4,4',6,6'- hexanitrodiphenylamine)					
[131-73-7]					
1,2-dihydro-5-nitroacenaphthylene	9.0		HSDB (2015)	Q	38
$C_{12}H_9NO_2$					
(5-nitroacenaphthene)					
[602-87-9]					
4-nitro-1,1'-biphenyl	2.8		HSDB (2015)	Q	216
$C_{12}H_9NO_2$					
[92-93-3]					

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2-nitro-9H-fluorene $C_{13}H_9NO_2$ [607-57-8]	3.4×10^{1}		HSDB (2015)	Q	216
5-*tert*-butyl-4,6-dinitro-1,2,3-trimethylbenzene	3.4×10^{1}		Zhang et al. (2010)	Q	107, 108
$C_{13}H_{18}N_2O_4$	2.1		Zhang et al. (2010)	Q	107, 109
[145-39-1]	4.6×10^{-2}		Zhang et al. (2010)	Q	107, 110
	1.1		Zhang et al. (2010)	Q	107, 111
penoxaline	1.2×10^{1}		Fendinger and Glotfelty (1990)	M	
$C_{13}H_{19}N_3O_4$	2.7×10^{-1}		Glotfelty et al. (1987)	V	
(pendimethalin)	4.8		Hilal et al. (2008)	Q	
[40487-42-1]					
2,6-dinitro-4-octylphenol $C_{14}H_{20}N_2O_5$ [4097-33-0]	1.6×10^{4}		HSDB (2015)	Q	38
musk ketone	3.0		Lee et al. (2012)	M	
$C_{14}H_{18}N_2O_5$	5.2×10^{3}		HSDB (2015)	Q	38
[81-14-1]	2.1×10^{4}		Zhang et al. (2010)	Q	107, 108
	2.6×10^{2}		Zhang et al. (2010)	Q	107, 109
	8.4		Zhang et al. (2010)	Q	107, 110
	5.0×10^{2}		Zhang et al. (2010)	Q	107, 111
moskene	4.8×10^{1}		Zhang et al. (2010)	Q	107, 108
$C_{14}H_{18}N_2O_4$	1.4×10^{1}		Zhang et al. (2010)	Q	107, 109
[116-66-5]	7.5×10^{-1}		Zhang et al. (2010)	Q	107, 110
	2.5		Zhang et al. (2010)	Q	107, 111
9-ethyl-3-nitrocarbazole	3.3×10^{2}		Zhang et al. (2010)	Q	107, 108
$C_{14}H_{12}N_2O_2$	6.9×10^{2}		Zhang et al. (2010)	Q	107, 109
[86-20-4]	1.1×10^{3}		Zhang et al. (2010)	Q	107, 110
	2.5×10^{2}		Zhang et al. (2010)	Q	107, 111
1-[(2,4-dinitrophenyl)azo]-2-naphthol $C_{16}H_{10}N_4O_5$ (C.I. pigment orange 5) [3468-63-1]	1.1×10^{9}		HSDB (2015)	Q	38
3,7-dinitrofluoranthene $C_{16}H_8N_2O_4$ [105735-71-5]	4.9×10^{4}		HSDB (2015)	Q	38
1,6-dinitropyrene $C_{16}H_8N_2O_4$ [42397-64-8]	7.6×10^{4}		HSDB (2015)	Q	38
1,8-dinitropyrene $C_{16}H_8N_2O_4$ [42397-65-9]	7.6×10^{4}		HSDB (2015)	Q	38
1-nitropyrene $C_{16}H_9NO_2$ [5522-43-0]	3.9×10^{2}		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
4-nitropyrene $C_{16}H_9NO_2$ [57835-92-4]	3.9×10^{2}		HSDB (2015)	Q	38
1-[(4-methyl-2-nitrophenyl)azo]-2-naphthalenol $C_{17}H_{13}N_3O_3$ (C.I. Pigment Red 3) [2425-85-6]	8.2×10^{6}		HSDB (2015)	Q	38
phenyl 1-hydroxy-4-nitro-2-naphthoate $C_{17}H_{11}NO_5$ [65208-34-6]	1.5×10^{4}		Zhang et al. (2010)	Q	107, 108
	6.7×10^{5}		Zhang et al. (2010)	Q	107, 109
	1.1×10^{2}		Zhang et al. (2010)	Q	107, 110
	2.7×10^{5}		Zhang et al. (2010)	Q	107, 111
6-nitrochrysene $C_{18}H_{11}NO_2$ [7496-02-8]	6.6×10^{2}		HSDB (2015)	Q	38
1-nitrobenzo[a]pyrene $C_{20}H_{11}NO_2$ [70021-99-7]	3.1×10^{3}		HSDB (2015)	Q	182
3-nitrobenzo[a]pyrene $C_{20}H_{11}NO_2$ [70021-98-6]	3.1×10^{3}		HSDB (2015)	Q	182
6-nitrobenzo[a]pyrene $C_{20}H_{11}NO_2$ [63041-90-7]	3.1×10^{3}		HSDB (2015)	Q	182
Organic species with fluorine (F)					
Fluorine (F)					
fluoromethane CH_3F [593-53-3]	6.1×10^{-4}	2000	Sander et al. (2011)	L	
	6.1×10^{-4}	2000	Sander et al. (2006)	L	
	5.8×10^{-4}	2200	Wilhelm et al. (1977)	L	
	5.8×10^{-4}	2100	Swain and Thornton (1962)	M	
	5.4×10^{-4}	2200	Glew and Moelwyn-Hughes (1953)	M	
	5.1×10^{-4}		Mackay and Shiu (1981)	V	
	5.8×10^{-4}		Hine and Mookerjee (1975)	V	
	9.2×10^{-5}		Hilal et al. (2008)	Q	
		2200	Kühne et al. (2005)	Q	
	1.9×10^{-4}		Nirmalakhandan and Speece (1988a)	Q	
	5.9×10^{-4}		Irmann (1965)	Q	
		2200	Kühne et al. (2005)	?	
	7.1×10^{-4}		Yaws (1999)	?	
	7.0×10^{-4}		Yaws and Yang (1992)	?	92, 28

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
difluoromethane	6.9×10^{-4}	2400	Maaßen (1995)	M	
CH_2F_2	6.9×10^{-4}	2300	Reichl (1995)	M	
(R32)	8.4×10^{-4}		Hilal et al. (2008)	Q	
[75-10-5]		2200	Kühne et al. (2005)	Q	
		2400	Kühne et al. (2005)	?	
	8.6×10^{-4}		Yaws (1999)	?	
	8.6×10^{-4}		Yaws and Yang (1992)	?	92
trifluoromethane	1.3×10^{-4}	3300	Sander et al. (2011)	L	
CHF_3	1.3×10^{-4}	3200	Wilhelm et al. (1977)	L	
(R23)	1.4×10^{-4}	2200	Zheng et al. (1997)	M	
[75-46-7]	1.2×10^{-4}	2400	Maaßen (1995)	M	
	1.0×10^{-4}		Hine and Mookerjee (1975)	V	
	1.0×10^{-4}		Irmann (1965)	C	
	2.0×10^{-4}		Hilal et al. (2008)	Q	
		2200	Kühne et al. (2005)	Q	
	1.2×10^{-4}		Nirmalakhandan and Speece (1988a)	Q	
	1.1×10^{-4}		Irmann (1965)	Q	
		3000	Kühne et al. (2005)	?	
	1.3×10^{-4}		Yaws (1999)	?	
	1.3×10^{-4}		Yaws and Yang (1992)	?	92
tetrafluoromethane	2.1×10^{-6}	2300	Warneck and Williams (2012)	L	
CF_4	2.1×10^{-6}	1800	Sander et al. (2011)	L	
(carbontetrafluoride)	2.1×10^{-6}	1800	Wilhelm et al. (1977)	L	
[75-73-0]	2.0×10^{-6}	2000	Reichl (1995)	M	
	2.2×10^{-6}	1400	Scharlin and Battino (1994)	M	
	2.1×10^{-6}		Park et al. (1982)	M	
	2.0×10^{-6}	2300	Wen and Muccitelli (1979)	M	
	2.2×10^{-6}	1900	Ashton et al. (1968)	M	
	2.0×10^{-6}	1500	Morrison and Johnstone (1954)	M	
	1.9×10^{-6}		Hine and Mookerjee (1975)	V	
	1.9×10^{-6}		Irmann (1965)	C	
	9.2×10^{-6}		Hilal et al. (2008)	Q	
		2200	Kühne et al. (2005)	Q	
	1.0×10^{-6}	-840	Bonifácio et al. (2001)	Q	
	5.4×10^{-6}		Nirmalakhandan and Speece (1988a)	Q	
	1.6×10^{-6}		Irmann (1965)	Q	
		1900	Kühne et al. (2005)	?	
	1.9×10^{-6}		Yaws (1999)	?	
	1.8×10^{-6}		Yaws and Yang (1992)	?	92
fluoroethane	4.8×10^{-4}		Hilal et al. (2008)	Q	
C_2H_5F	4.4×10^{-4}		Yaws and Yang (1992)	?	92
[353-36-6]					
1,1-difluoroethane	5.3×10^{-4}	2600	Zheng et al. (1997)	M	
$C_2H_4F_2$	5.0×10^{-4}	2800	Maaßen (1995)	M	
(R152a)	5.0×10^{-4}	2700	Reichl (1995)	M	
[75-37-6]	4.2×10^{-4}	2300	McLinden (1989)	V	
	4.8×10^{-4}		Hine and Mookerjee (1975)	V	
	4.8×10^{-4}		Irmann (1965)	C	113
	2.9×10^{-4}		Hilal et al. (2008)	Q	
		2600	Kühne et al. (2005)	Q	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	1.4×10^{-4}		Nirmalakhandan and Speece (1988a)	Q	
	4.3×10^{-4}		Irmann (1965)	Q	
		2800	Kühne et al. (2005)	?	
	3.7×10^{-4}		Yaws and Yang (1992)	?	92, 115
1,1,1,2-tetrafluoroethane	1.8×10^{-4}	2700	Zheng et al. (1997)	M	
$C_2H_2F_4$	1.6×10^{-4}	3000	Maaßen (1995)	M	
(R134a)	1.6×10^{-4}	2900	Reichl (1995)	M	
[811-97-2]	2.0×10^{-4}	2500	Chang and Criddle (1995)	M	
	1.4×10^{-4}	2600	McLinden (1989)	V	
	6.5×10^{-6}		HSDB (2015)	Q	38
	9.7×10^{-5}		Hilal et al. (2008)	Q	
pentafluoroethane	3.5×10^{-5}	3000	Reichl (1995)	M	
C_2HF_5	8.0×10^{-5}	4800	McLinden (1989)	V	
(R125)	2.0×10^{-4}		HSDB (2015)	Q	38
[354-33-6]	3.2×10^{-6}		Zhang et al. (2010)	Q	107, 108
	2.0×10^{-5}		Zhang et al. (2010)	Q	107, 109
	5.7×10^{-5}		Zhang et al. (2010)	Q	107, 110
	2.1×10^{-5}		Zhang et al. (2010)	Q	107, 111
		2600	Kühne et al. (2005)	Q	
		2900	Kühne et al. (2005)	?	
hexafluoroethane	6.5×10^{-7}	2100	Bonifácio et al. (2001)	M	
C_2F_6	5.3×10^{-7}		Park et al. (1982)	M	
[76-16-4]	5.7×10^{-7}	2900	Wen and Muccitelli (1979)	M	
	4.1×10^{-7}		Zhang et al. (2010)	Q	107, 108
	1.1×10^{-5}		Zhang et al. (2010)	Q	107, 109
	8.4×10^{-7}		Zhang et al. (2010)	Q	107, 110
	1.9×10^{-6}		Zhang et al. (2010)	Q	107, 111
	1.2×10^{-5}		Hilal et al. (2008)	Q	
		2600	Kühne et al. (2005)	Q	
	1.2×10^{-6}	1700	Bonifácio et al. (2001)	Q	
		2900	Kühne et al. (2005)	?	
	5.8×10^{-7}		Yaws and Yang (1992)	?	92
1-fluoropropane	5.7×10^{-4}		Hilal et al. (2008)	Q	
C_3H_7F	6.1×10^{-4}		Yaws and Yang (1992)	?	92, 236
[460-13-9]					
2-fluoropropane	2.5×10^{-4}		Hilal et al. (2008)	Q	
C_3H_7F	5.8×10^{-4}		Yaws and Yang (1992)	?	92, 28
[420-26-8]					
1,1,1,2,2-pentafluoropropane	3.0×10^{-1}		Nirmalakhandan and Speece (1988a)	Q	
$C_3H_3F_5$					
[1814-88-6]					
1,1,1,3,3,3-hexafluoropropane	1.2×10^{-6}		Zhang et al. (2010)	Q	107, 108
$C_3H_2F_6$	3.9×10^{-5}		Zhang et al. (2010)	Q	107, 109
[690-39-1]	1.8×10^{-4}		Zhang et al. (2010)	Q	107, 110
	2.7×10^{-6}		Zhang et al. (2010)	Q	107, 111

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1,1,1,2,3,3,3-heptafluoropropane	1.4×10^{-5}	3300	Reichl (1995)	M	
C_3HF_7	6.2×10^{-7}		HSDB (2015)	Q	38
(R227)		2900	Kühne et al. (2005)	Q	
[431-89-0]		3300	Kühne et al. (2005)	?	
octafluoropropane	1.2×10^{-7}	6900	Wen and Muccitelli (1979)	M	
C_3F_8	3.0×10^{-7}		HSDB (2015)	V	
(R218)	7.7×10^{-8}		Zhang et al. (2010)	Q	107, 108
[76-19-7]	1.0×10^{-5}		Zhang et al. (2010)	Q	107, 109
	3.8×10^{-7}		Zhang et al. (2010)	Q	107, 110
	4.5×10^{-7}		Zhang et al. (2010)	Q	107, 111
	1.1×10^{-5}		Hilal et al. (2008)	Q	
octafluorocyclobutane	1.3×10^{-6}	3100	Clever et al. (2005)	L	237
C_4F_8	1.3×10^{-6}	2900	Scharlin and Battino (1994)	M	
[115-25-3]	1.2×10^{-6}		Park et al. (1982)	M	
	1.2×10^{-6}	3800	Wen and Muccitelli (1979)	M	
	1.3×10^{-7}		Zhang et al. (2010)	Q	107, 108
	1.6×10^{-6}		Zhang et al. (2010)	Q	107, 109
	2.2×10^{-6}		Zhang et al. (2010)	Q	107, 110
	1.0×10^{-6}		Zhang et al. (2010)	Q	107, 111
	9.2×10^{-6}		Hilal et al. (2008)	Q	
		4500	Kühne et al. (2005)	Q	
		3800	Kühne et al. (2005)	?	
	2.5×10^{-6}		Yaws and Yang (1992)	?	92, 146
dodecafluoropentane C_5F_{12} [678-26-2]	6.1×10^{-6}		Hilal et al. (2008)	Q	
fluorocyclohexane $C_6H_{11}F$ [372-46-3]	1.3×10^{-3}		Hilal et al. (2008)	Q	
1-fluoroheptane $C_7H_{15}F$ [661-11-0]	2.7×10^{-4}		Hilal et al. (2008)	Q	
hexadecafluoroheptane C_7F_{16} [335-57-9]	1.9×10^{-7}		Hilal et al. (2008)	Q	
1-fluorooctane $C_8H_{17}F$ [463-11-6]	1.5×10^{-4}		Hilal et al. (2008)	Q	
eicosafluorononane C_9F_{20} [375-96-2]	4.5×10^{-9}		Hilal et al. (2008)	Q	
perfluoroundecane	1.3×10^{-13}		Zhang et al. (2010)	Q	107, 108
$C_{11}F_{24}$	1.2×10^{-11}		Zhang et al. (2010)	Q	107, 109
[307-49-3]	1.2×10^{-9}		Zhang et al. (2010)	Q	107, 110
	6.0×10^{-12}		Zhang et al. (2010)	Q	107, 111

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10- henicosafluorododecane $C_{12}H_5F_{21}$ (F10H2)	5.1×10^{-10}		Plassmann et al. (2010)	Q	
1,1,1,2,2,3,3,4,4,5,5,6,6- tridecafluorotetradecane $C_{14}H_{17}F_{13}$ (F6H8) [133331-77-8]	6.4×10^{-7}		Plassmann et al. (2010)	Q	
1,1,1,2,2,3,3,4,4,5,5,6,6- tridecafluoroicosane $C_{20}H_{29}F_{13}$ (F6H14) [154628-00-9]	2.5×10^{-7}		Plassmann et al. (2010)	Q	
1,1,1,2,2,3,3,4,4,5,5,6,6- tridecafluorodocosane $C_{22}H_{33}F_{13}$ (F6H16) [133310-71-1]	2.0×10^{-7}		Plassmann et al. (2010)	Q	
1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8- heptadecafluorotetracosane $C_{24}H_{33}F_{17}$ (F8H16) [117146-18-6]	4.0×10^{-9}		Plassmann et al. (2010)	Q	
1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10- henicosafluorohexacosane $C_{26}H_{33}F_{21}$ (F10H16)	3.2×10^{-11}		Plassmann et al. (2010)	Q	
1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9, 10,10,11,11,12,12- pentacosafluorohexacosane $C_{26}H_{29}F_{25}$ (F12H14) [93454-73-0]	1.6×10^{-13}		Plassmann et al. (2010)	Q	
1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9, 10,10,11,11,12,12- pentacosafluorooctacosane $C_{28}H_{33}F_{25}$ (F12H16)	8.0×10^{-14}		Plassmann et al. (2010)	Q	
1,1-difluoroethene $C_2H_2F_2$ [75-38-7]	2.5×10^{-5} 5.1×10^{-5} 2.5×10^{-5}		HSDB (2015) Hilal et al. (2008) Yaws and Yang (1992)	V Q ?	 92

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
tetrafluoroethene	1.6×10^{-5}	2100	Wilhelm et al. (1977)	L	
C_2F_4	1.6×10^{-5}		HSDB (2015)	V	
[116-14-3]	9.8×10^{-6}		Irmann (1965)	C	23
	1.9×10^{-5}		Hilal et al. (2008)	Q	
		2400	Kühne et al. (2005)	Q	
		2100	Kühne et al. (2005)	?	
	1.6×10^{-5}		Yaws and Yang (1992)	?	92
hexafluoropropene	2.9×10^{-6}	2400	Wilhelm et al. (1977)	L	
C_3F_6	6.8×10^{-6}	2600	Maaßen (1995)	M	
[116-15-4]	1.8×10^{-6}		HSDB (2015)	Q	38
	3.6×10^{-5}		Hilal et al. (2008)	Q	
		2800	Kühne et al. (2005)	Q	
		2400	Kühne et al. (2005)	?	
(perfluorobutyl)ethene	9.0×10^{-8}		HSDB (2015)	Q	38
$C_6H_3F_9$	8.8×10^{-8}		Zhang et al. (2010)	Q	107, 108
(4:2 FTO)	3.3×10^{-6}		Zhang et al. (2010)	Q	107, 109
[19430-93-4]	8.6×10^{-6}		Zhang et al. (2010)	Q	107, 110
	3.6×10^{-7}		Zhang et al. (2010)	Q	107, 111
	2.5×10^{-6}	4100	Goss et al. (2006)	Q	
(perfluorohexyl)ethene $C_8H_3F_{13}$ (6:2 FTO) [25291-17-2]	5.3×10^{-7}	4900	Goss et al. (2006)	Q	
(perfluorooctyl)ethene $C_{10}H_3F_{17}$ (8:2 FTO) [21652-58-4]	1.4×10^{-7}	5700	Goss et al. (2006)	Q	
(perfluorodecyl)ethene $C_{12}H_3F_{21}$ (10:2 FTO) [30389-25-4]	3.3×10^{-8}	6500	Goss et al. (2006)	Q	
1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-pentacosafluorooctacos-13-ene $C_{28}H_{31}F_{25}$	8.0×10^{-11}		Plassmann et al. (2010)	Q	
fluorobenzene	1.6×10^{-3}		Mackay and Shiu (1981)	L	
C_6H_5F	1.6×10^{-3}	3900	Hiatt (2013)	M	
[462-06-6]	1.4×10^{-3}	4300	Dewulf et al. (1999)	M	
	1.1×10^{-3}		Li and Carr (1993)	M	
	1.5×10^{-3}	4400	Hartkopf and Karger (1973)	M	
	1.6×10^{-3}		Schüürmann (2000)	V	
	1.4×10^{-3}		Mackay et al. (1993)	V	
	1.6×10^{-3}		Sieg et al. (2008)	C	
	2.0×10^{-3}		Hilal et al. (2008)	Q	
		3700	Kühne et al. (2005)	Q	
	5.0×10^{-3}		Nirmalakhandan et al. (1997)	Q	
		3800	Kühne et al. (2005)	?	
	1.2×10^{-3}		Hoff et al. (1993)	?	7

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	1.6×10^{-3}		Yaws and Yang (1992)	?	92
	1.5×10^{-3}		Abraham et al. (1990)	?	
1,2-difluorobenzene $C_6H_4F_2$ (*o*-difluorobenzene) [367-11-3]	1.2×10^{-3} 2.2×10^{-3} 1.4×10^{-3}	3500	Brockbank et al. (2013) Hilal et al. (2008) Yaws and Yang (1992)	M Q ?	 92
1,3-difluorobenzene $C_6H_4F_2$ (*m*-difluorobenzene) [372-18-9]	1.3×10^{-3} 1.3×10^{-4}		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	 92
1,4-difluorobenzene $C_6H_4F_2$ (*p*-difluorobenzene) [540-36-3]	1.6×10^{-3} 1.8×10^{-3} 1.3×10^{-3}	3900	Hiatt (2013) Hilal et al. (2008) Yaws and Yang (1992)	M Q ?	 92
1,2,3,5-tetrafluorobenzene $C_6H_2F_4$ [2367-82-0]	5.0×10^{-4}		Hilal et al. (2008)	Q	
1,2,4,5-tetrafluorobenzene $C_6H_2F_4$ [327-54-8]	7.0×10^{-4}		Hilal et al. (2008)	Q	
pentafluorobenzene C_6HF_5 [363-72-4]	7.5×10^{-4}	4800	Hiatt (2013)	M	
hexafluorobenzene C_6F_6 [392-56-3]	5.5×10^{-4}	5200	Hiatt (2013)	M	
(trifluoromethyl)-benzene $C_6H_5CF_3$ (α,α,α-trifluorotoluene) [98-08-8]	5.8×10^{-4} 6.1×10^{-4} 6.2×10^{-4} 1.3×10^{-3} 1.9×10^{-2} 6.0×10^{-4}		HSDB (2015) Abraham et al. (1994a) Mackay and Shiu (1981) Hilal et al. (2008) Nirmalakhandan et al. (1997) Yaws and Yang (1992)	V V V Q Q ?	 92
decafluorobiphenyl $C_{10}F_{10}$ [434-90-2]	6.7×10^{-3}	3600	Hiatt (2013)	M	
carbonyl fluoride COF_2 [353-50-4]	3.5×10^{-1} 9.9×10^{-3} 2.0×10^{-1}		Mirabel et al. (1996) De Bruyn et al. (1995a) George et al. (1993)	M M X	 183 238
formyl fluoride FCHO [1493-02-3]	3.0×10^{-2}		Kanakidou et al. (1995)	E	
2-fluoroethanol C_2H_5FO [371-62-0]	1.4 2.5		HSDB (2015) Hilal et al. (2008)	Q Q	38

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,2,2-trifluoroethanol	4.7×10^{-1}	6200	Sander et al. (2011)	L	
CF_3CH_2OH	4.7×10^{-1}	6200	Chen et al. (2003)	M	
[75-89-8]	5.8×10^{-1}	5900	Rochester and Symonds (1973)	M	
	3.5×10^{-1}		Zhang et al. (2010)	Q	107, 108
	2.4×10^{-1}		Zhang et al. (2010)	Q	107, 109
	3.8		Zhang et al. (2010)	Q	107, 110
	4.7×10^{-2}		Zhang et al. (2010)	Q	107, 111
	6.1×10^{-1}		Hilal et al. (2008)	Q	
		6500	Kühne et al. (2005)	Q	
	5.0×10^{-1}		Nirmalakhandan and Speece (1988a)	Q	
		5600	Kühne et al. (2005)	?	
	5.7×10^{-1}		Abraham et al. (1990)	?	
1,1,1-trifluoro-2-propanol	4.5×10^{-1}	6300	Rochester and Symonds (1973)	M	
$CF_3CHOHCH_3$	2.2×10^{-1}		Hilal et al. (2008)	Q	
[374-01-6]		6900	Kühne et al. (2005)	Q	
	5.2×10^{-1}		Nirmalakhandan and Speece (1988a)	Q	
		6300	Kühne et al. (2005)	?	
2,2,3,3-tetrafluoro-1-propanol	1.4	7000	Sander et al. (2011)	L	
$CHF_2CF_2CH_2OH$	1.4	7000	Chen et al. (2003)	M	
[76-37-9]	1.6	6700	Rochester and Symonds (1973)	M	
	6.0×10^{-1}		Hilal et al. (2008)	Q	
		6900	Kühne et al. (2005)	Q	
	3.7×10^{-1}		Nirmalakhandan and Speece (1988a)	Q	
		6600	Kühne et al. (2005)	?	
2,2,3,3,3-pentafluoro-1-propanol	1.4×10^{-1}	4300	Sander et al. (2011)	L	
$CF_3CF_2CH_2OH$	1.4×10^{-1}	4300	Chen et al. (2003)	M	
[422-05-9]	4.5×10^{-1}	6000	Rochester and Symonds (1973)	M	
	2.3×10^{-1}		Hilal et al. (2008)	Q	
		6800	Kühne et al. (2005)	Q	
		6000	Kühne et al. (2005)	?	
1,1,1,3,3,3-hexafluoro-2-propanol	2.4×10^{-1}	6700	Rochester and Symonds (1973)	M	
$CF_3CHOHCF_3$	2.5×10^{-2}		Hilal et al. (2008)	Q	
[920-66-1]		6800	Kühne et al. (2005)	Q	
	2.3×10^{-1}		Nirmalakhandan and Speece (1988a)	Q	
		6700	Kühne et al. (2005)	?	
	2.3×10^{-1}		Abraham et al. (1990)	?	
trifluoroacetylfluoride	3.0×10^{-2}		Mirabel et al. (1996)	M	
CF_3COF	9.5×10^{-3}		De Bruyn et al. (1995a)	M	183
[354-34-7]	3.0×10^{-2}		George et al. (1994b)	M	239
1,1,1-trifluoro-2-propanone	1.4	8900	Sander et al. (2011)	L	
CF_3COCH_3	1.4	8900	Betterton (1991)	M	
[421-50-1]					
fluoroethanoic acid	8.0×10^{2}		Sander et al. (2011)	L	
CH_2FCOOH	8.0×10^{2}		Bowden et al. (1998a)	M	
(fluoroacetic acid)	5.4×10^{2}		Hilal et al. (2008)	Q	
[144-49-0]					

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
difluoroethanoic acid	3.0×10^{2}	6900	Sander et al. (2011)	L	
CHF_2COOH	3.0×10^{2}	6900	Bowden et al. (1998a)	M	
(difluoroacetic acid)	7.2×10^{1}		Hilal et al. (2008)	Q	
[381-73-7]		7700	Kühne et al. (2005)	Q	
		6900	Kühne et al. (2005)	?	
trifluoroethanoic acid	8.9×10^{1}	9300	Sander et al. (2011)	L	
CF_3COOH	5.7×10^{1}	4100	Kutsuna and Horia (2008)	M	
(trifluoroacetic acid)	8.8×10^{1}	9300	Bowden et al. (1996)	M	
[76-05-1]	2.3		Zhang et al. (2010)	Q	107, 108
	1.6×10^{-1}		Zhang et al. (2010)	Q	107, 109
	8.0		Zhang et al. (2010)	Q	107, 110
	3.9		Zhang et al. (2010)	Q	107, 111
	4.0×10^{-1}		Hilal et al. (2008)	Q	
		7700	Kühne et al. (2005)	Q	
		9400	Kühne et al. (2005)	?	
perfluorohexanoic acid	4.4×10^{-1}		Arp et al. (2006)	Q	240
$C_6HF_{11}O_2$	1.2×10^{-1}		Arp et al. (2006)	Q	241
[307-24-4]					
perfluoroheptanoic acid	5.7×10^{-4}		Zhang et al. (2010)	Q	107, 108
$C_7HF_{13}O_2$	5.0×10^{-2}		Zhang et al. (2010)	Q	107, 109
[375-85-9]	2.2×10^{-2}		Zhang et al. (2010)	Q	107, 110
	5.6×10^{-3}		Zhang et al. (2010)	Q	107, 111
	1.8×10^{-1}		Arp et al. (2006)	Q	240
	5.7×10^{-2}		Arp et al. (2006)	Q	241
pentadecafluorooctanoic acid	4.9×10^{-2}		Kutsuna and Hori (2008)	M	
$C_8HF_{15}O_2$	4.0×10^{-1}		Li et al. (2007)	M	
(perfluorooctanoic acid; PFOA)	1.1×10^{-4}		Zhang et al. (2010)	Q	107, 108
[335-67-1]	1.0×10^{-2}		Zhang et al. (2010)	Q	107, 109
	1.2×10^{-2}		Zhang et al. (2010)	Q	107, 110
	1.1×10^{-3}		Zhang et al. (2010)	Q	107, 111
	1.1×10^{-4}		Zhang et al. (2010)	Q	107, 108
	1.0×10^{-2}		Zhang et al. (2010)	Q	107, 109
	2.1×10^{-2}		Zhang et al. (2010)	Q	107, 110
	1.1×10^{-3}		Zhang et al. (2010)	Q	107, 111
	9.5×10^{-2}		Arp et al. (2006)	Q	240
	2.0×10^{-2}		Arp et al. (2006)	Q	241
perfluorononanoic acid	4.3×10^{-2}		Arp et al. (2006)	Q	240
$C_9HF_{17}O_2$	5.3×10^{-3}		Arp et al. (2006)	Q	241
[375-95-1]					
perfluorodecanoic acid	2.5×10^{-2}		Arp et al. (2006)	Q	240
$C_{10}HF_{19}O_2$	1.1×10^{-3}		Arp et al. (2006)	Q	241
[335-76-2]					
perfluoroundecanoic acid	1.3×10^{-2}		Arp et al. (2006)	Q	240
$C_{11}HF_{21}O_2$	1.9×10^{-4}		Arp et al. (2006)	Q	241
[2058-94-8]					

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
perfluorododecanoic acid $C_{12}HF_{23}O_2$ [307-55-1]	6.4×10^{-3}		Plassmann et al. (2011)	E	
perfluorotetradecanoic acid $C_{14}HF_{27}O_2$ [376-06-7]	1.6×10^{-3}		Plassmann et al. (2011)	E	
ethyl 2,2,2-trifluoroethyl ether $C_4H_7F_3O$ [461-24-5]	7.2×10^{-4}		Hilal et al. (2008)	Q	
(2,2,2-trifluoroethoxy)-ethene $CF_3CH_2OCHCH_2$ (fluoroxene) [406-90-6]	5.4×10^{-4}	4000	Fogg and Sangster (2003)	L	
	3.3×10^{-4}		Steward et al. (1973)	L	19
	5.5×10^{-4}	4300	Smith et al. (1981b)	M	
	3.2×10^{-4}		Stoelting and Longshore (1972)	M	19
	3.3×10^{-4}		Munson et al. (1964)	M	19
	9.5×10^{-5}		Hilal et al. (2008)	Q	
	5.1×10^{-4}		Abraham et al. (1990)	?	
2,2,2-trifluoroethyl methanoate $C_3H_3F_3O_2$ [32042-38-9]	5.4×10^{-3}	4700	Sander et al. (2011)	L	
	5.4×10^{-3}	4700	Kutsuna et al. (2005)	M	
2,2,2-trifluoroethyl ethanoate $C_4H_5F_3O_2$ [406-95-1]	5.5×10^{-3}	5200	Sander et al. (2011)	L	
	5.7×10^{-3}	5300	Kutsuna et al. (2004)	M	
		6400	Kühne et al. (2005)	Q	
		5500	Kühne et al. (2005)	?	
trifluoroethanoic acid, methyl ester CF_3COOCH_3 (methyl trifluoroacetate) [431-47-0]	1.1×10^{-3}	5300	Sander et al. (2011)	L	242
	1.2×10^{-3}	4900	Kutsuna et al. (2004)	M	
		6100	Kühne et al. (2005)	Q	
		5800	Kühne et al. (2005)	?	
trifluoroethanoic acid, ethyl ester $CF_3COOC_2H_5$ (ethyl trifluoroacetate) [383-63-1]	8.9×10^{-4}	4900	Sander et al. (2011)	L	
	8.9×10^{-4}	4900	Kutsuna et al. (2005)	M	
trifluoro(trifluoromethyl)-oxirane C_3F_6O [428-59-1]	8.8×10^{-6}	3000	Clever et al. (2005)	C	243
heptafluorobutanoic acid $C_4HF_7O_2$ [375-22-4]	8.2×10^{-2}		Zhang et al. (2010)	Q	107, 108
	7.2×10^{-1}		Zhang et al. (2010)	Q	107, 109
	2.5×10^{-1}		Zhang et al. (2010)	Q	107, 110
	6.4×10^{-1}		Zhang et al. (2010)	Q	107, 111
3,3,4,4,4-pentafluorobutan-1-ol $C_4H_5OF_5$ [54949-74-5]	5.1×10^{-2}		Zhang et al. (2010)	Q	107, 108
	3.7×10^{-1}		Zhang et al. (2010)	Q	107, 109
	4.0×10^{-2}		Zhang et al. (2010)	Q	107, 110
	1.5×10^{-3}		Zhang et al. (2010)	Q	107, 111
1,1,1,2,2,3,4,5,5,5-decafluoropentane $C_5H_2F_{10}$ [138495-42-8]	4.4×10^{-8}		Zhang et al. (2010)	Q	107, 108
	3.2×10^{-5}		Zhang et al. (2010)	Q	107, 109
	1.8×10^{-4}		Zhang et al. (2010)	Q	107, 110
	9.0×10^{-7}		Zhang et al. (2010)	Q	107, 111

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1,1,1,2,2,3,3,4,4-nonafluoro-4-methoxybutane	9.9×10^{-6}		Zhang et al. (2010)	Q	107, 108
$C_5H_3F_9O$	1.3×10^{-5}		Zhang et al. (2010)	Q	107, 109
[163702-07-6]	8.4×10^{-6}		Zhang et al. (2010)	Q	107, 110
	3.9×10^{-6}		Zhang et al. (2010)	Q	107, 111
1-ethoxy-1,1,2,3,3,3-hexafluoro-2-(trifluoromethyl)propane	7.5×10^{-6}		Zhang et al. (2010)	Q	107, 108
$C_6H_5F_9O$	4.7×10^{-5}		Zhang et al. (2010)	Q	107, 109
[163702-06-5]	8.0×10^{-6}		Zhang et al. (2010)	Q	107, 110
	3.3×10^{-6}		Zhang et al. (2010)	Q	107, 111
1H,1H,2H,2H-perfluorohexan-1-ol	6.6×10^{-3}	4500	Wu and Chang (2011)	M	89
$C_6H_5F_9O$	1.3×10^{-2}		Goss et al. (2006)	M	
(4:2 FTOH)	6.1×10^{-5}	5400	Lei et al. (2004)	M	122
[2043-47-2]	5.6×10^{-1}		Wu and Chang (2011)	V	
	1.8×10^{-3}		Zhang et al. (2010)	Q	107, 108
	1.3×10^{-1}		Zhang et al. (2010)	Q	107, 109
	8.2×10^{-3}		Zhang et al. (2010)	Q	107, 110
	2.4×10^{-4}		Zhang et al. (2010)	Q	107, 111
	4.3×10^{-4}		Arp et al. (2006)	Q	240
	3.1×10^{-5}		Arp et al. (2006)	Q	241
	7.2×10^{-3}	7200	Goss et al. (2006)	Q	
1-ethoxy-1,1,2,2,3,3,4,4,4-nonafluorobutane	7.5×10^{-6}		Zhang et al. (2010)	Q	107, 108
$C_6H_5F_9O$	1.2×10^{-5}		Zhang et al. (2010)	Q	107, 109
[163702-05-4]	7.5×10^{-6}		Zhang et al. (2010)	Q	107, 110
	3.0×10^{-6}		Zhang et al. (2010)	Q	107, 111
1H,1H,2H,2H-perfluorooctan-1-ol	1.7×10^{-4}	2600	Wu and Chang (2011)	M	89
$C_8H_5F_{13}O$	1.5×10^{-3}		Goss et al. (2006)	M	
(6:2 FTOH)	8.5×10^{-5}	7000	Lei et al. (2004)	M	122
[647-42-7]	3.9×10^{-1}		Wu and Chang (2011)	V	
	6.5×10^{-5}		Zhang et al. (2010)	Q	107, 108
	9.5×10^{-3}		Zhang et al. (2010)	Q	107, 109
	3.4×10^{-3}		Zhang et al. (2010)	Q	107, 110
	9.9×10^{-6}		Zhang et al. (2010)	Q	107, 111
	2.8×10^{-4}		Arp et al. (2006)	Q	240
	1.8×10^{-5}		Arp et al. (2006)	Q	241
	1.8×10^{-3}	8000	Goss et al. (2006)	Q	
methyl perfluoro(8-(fluoroformyl)-5-methyl-4,7-dioxanonanoate)	5.8×10^{-2}		Zhang et al. (2010)	Q	107, 108
$C_{10}H_3F_{15}O_5$	5.1×10^{-4}		Zhang et al. (2010)	Q	107, 109
[69116-73-0]	2.6×10^{-4}		Zhang et al. (2010)	Q	107, 110
	1.3×10^{-1}		Zhang et al. (2010)	Q	107, 111
3,3,4,4,5,5,6,6,6-nonafluorohexyl methacrylate	3.4×10^{-5}		Zhang et al. (2010)	Q	107, 108
$C_{10}H_9F_9O_2$	1.6×10^{-3}		Zhang et al. (2010)	Q	107, 109
[1799-84-4]	6.5×10^{-4}		Zhang et al. (2010)	Q	107, 110
	3.4×10^{-5}		Zhang et al. (2010)	Q	107, 111

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1H,1H,2H,2H-perfluorodecan-1-ol	2.0×10^{-4}	3100	Wu and Chang (2011)	M	89
$C_{10}H_5F_{17}O$	1.7×10^{-4}	8800	Lei et al. (2004)	M	122
(8:2 FTOH)	2.4×10^{-1}		Wu and Chang (2011)	V	
[678-39-7]	1.1×10^{-4}		Goss et al. (2006)	V	
	2.4×10^{-6}		Zhang et al. (2010)	Q	107, 108
	2.6×10^{-4}		Zhang et al. (2010)	Q	107, 109
	7.3×10^{-4}		Zhang et al. (2010)	Q	107, 110
	4.3×10^{-7}		Zhang et al. (2010)	Q	107, 111
	5.7×10^{-5}		Arp et al. (2006)	Q	240
	1.6×10^{-5}		Arp et al. (2006)	Q	241
	3.8×10^{-4}	8600	Goss et al. (2006)	Q	
3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl acrylate	1.9×10^{-6}		Zhang et al. (2010)	Q	107, 108
$C_{11}H_7F_{13}O_2$	1.9×10^{-4}		Zhang et al. (2010)	Q	107, 109
[17527-29-6]	2.9×10^{-4}		Zhang et al. (2010)	Q	107, 110
	2.4×10^{-6}		Zhang et al. (2010)	Q	107, 111
2-(perfluorohexyl)ethyl methacrylate	1.2×10^{-6}		Zhang et al. (2010)	Q	107, 108
$C_{12}H_9F_{13}O_2$	1.8×10^{-4}		Zhang et al. (2010)	Q	107, 109
[2144-53-8]	1.3×10^{-4}		Zhang et al. (2010)	Q	107, 110
	1.5×10^{-6}		Zhang et al. (2010)	Q	107, 111
1,1,2,2-tetrahydroperfluoro dodecanol	1.3×10^{-4}	2700	Wu and Chang (2011)	M	89
$C_{12}H_5F_{21}O$	2.5×10^{-1}		Wu and Chang (2011)	V	
(10:2 FTOH)	8.6×10^{-8}		Zhang et al. (2010)	Q	107, 108
[865-86-1]	2.7×10^{-6}		Zhang et al. (2010)	Q	107, 109
	1.5×10^{-4}		Zhang et al. (2010)	Q	107, 110
	1.6×10^{-8}		Zhang et al. (2010)	Q	107, 111
	4.6×10^{-5}		Arp et al. (2006)	Q	240
	5.2×10^{-5}		Arp et al. (2006)	Q	241
	1.0×10^{-4}	9600	Goss et al. (2006)	Q	
	1.0×10^{-5}		Arp et al. (2006)	E	244
3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl acrylate	7.0×10^{-8}		Zhang et al. (2010)	Q	107, 108
$C_{13}H_7F_{17}O_2$	1.1×10^{-5}		Zhang et al. (2010)	Q	107, 109
[27905-45-9]	1.1×10^{-4}		Zhang et al. (2010)	Q	107, 110
	9.9×10^{-8}		Zhang et al. (2010)	Q	107, 111
3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl methacrylate	4.4×10^{-8}		Zhang et al. (2010)	Q	107, 108
$C_{14}H_9F_{17}O_2$	1.0×10^{-5}		Zhang et al. (2010)	Q	107, 109
[1996-88-9]	5.4×10^{-5}		Zhang et al. (2010)	Q	107, 110
	6.4×10^{-8}		Zhang et al. (2010)	Q	107, 111
3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafluorotetradecan-1-ol	3.1×10^{-9}		Zhang et al. (2010)	Q	107, 108
$C_{14}H_5F_{25}O$	1.1×10^{-8}		Zhang et al. (2010)	Q	107, 109
[39239-77-5]	3.1×10^{-5}		Zhang et al. (2010)	Q	107, 110
	6.9×10^{-10}		Zhang et al. (2010)	Q	107, 111

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2-(perfluorodecyl)ethyl acrylate	2.5×10^{-9}		Zhang et al. (2010)	Q	107, 108
$C_{15}H_7F_{21}O_2$	3.1×10^{-7}		Zhang et al. (2010)	Q	107, 109
[17741-60-5]	2.4×10^{-5}		Zhang et al. (2010)	Q	107, 110
	3.7×10^{-9}		Zhang et al. (2010)	Q	107, 111
1,1,2,2-tetrahydroperfluoro-1-hexadecanol	1.1×10^{-10}		Zhang et al. (2010)	Q	107, 108
$C_{16}H_5OF_{29}$	1.4×10^{-11}		Zhang et al. (2010)	Q	107, 109
[60699-51-6]	6.1×10^{-6}		Zhang et al. (2010)	Q	107, 110
	2.9×10^{-11}		Zhang et al. (2010)	Q	107, 111
2-(perfluorodecyl)ethyl methacrylate	1.6×10^{-9}		Zhang et al. (2010)	Q	107, 108
$C_{16}H_9F_{21}O_2$	3.1×10^{-7}		Zhang et al. (2010)	Q	107, 109
[2144-54-9]	1.1×10^{-5}		Zhang et al. (2010)	Q	107, 110
	2.4×10^{-9}		Zhang et al. (2010)	Q	107, 111
3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafluorotetradecyl prop-2-enoate	9.0×10^{-11}		Zhang et al. (2010)	Q	107, 108
$C_{17}H_7F_{25}O_2$	5.0×10^{-9}		Zhang et al. (2010)	Q	107, 109
[34395-24-9]	2.7×10^{-3}		Zhang et al. (2010)	Q	107, 110
	1.6×10^{-10}		Zhang et al. (2010)	Q	107, 111
2-perfluorododecylethyl methacrylate	5.8×10^{-11}		Zhang et al. (2010)	Q	107, 108
$C_{18}H_9F_{25}O_2$	5.0×10^{-9}		Zhang et al. (2010)	Q	107, 109
[6014-75-1]	2.3×10^{-6}		Zhang et al. (2010)	Q	107, 110
	9.9×10^{-11}		Zhang et al. (2010)	Q	107, 111
1,1,2,2-tetrahydroperfluoro-1-octadecanol	4.1×10^{-12}		Zhang et al. (2010)	Q	107, 108
$C_{18}H_5OF_{33}$	6.7×10^{-15}		Zhang et al. (2010)	Q	107, 109
[65104-67-8]	1.2×10^{-6}		Zhang et al. (2010)	Q	107, 110
	1.1×10^{-12}		Zhang et al. (2010)	Q	107, 111
1,1,2,2-tetrahydroperfluorohexadecyl acrylate	3.3×10^{-12}		Zhang et al. (2010)	Q	107, 108
$C_{19}H_7F29O_2$	4.1×10^{-11}		Zhang et al. (2010)	Q	107, 109
[34362-49-7]	6.5×10^{-4}		Zhang et al. (2010)	Q	107, 110
	6.9×10^{-12}		Zhang et al. (2010)	Q	107, 111
1,1,2,2-tetrahydroperfluoroeicosyl alcohol	1.5×10^{-13}		Zhang et al. (2010)	Q	107, 108
$C_{20}H_5OF_{37}$	2.2×10^{-18}		Zhang et al. (2010)	Q	107, 109
[65104-65-6]	2.4×10^{-7}		Zhang et al. (2010)	Q	107, 110
	4.6×10^{-14}		Zhang et al. (2010)	Q	107, 111
2-hydroxyfluorobenzene	3.1		Abraham et al. (1994a)	R	
C_6H_5FO	2.3		Hilal et al. (2008)	Q	
(*o*-fluorophenol)	2.1×10^{2}		Nirmalakhandan et al. (1997)	Q	
[367-12-4]					
4-hydroxyfluorobenzene	1.4×10^{1}		Abraham et al. (1994a)	R	
C_6H_5FO	7.9		Hilal et al. (2008)	Q	
(*p*-fluorophenol)	2.1×10^{2}		Nirmalakhandan et al. (1997)	Q	
[371-41-5]					

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
3-fluorophenol C_6H_5FO [372-20-3]	9.0		Hilal et al. (2008)	Q	
2,6-difluorophenol $C_6H_4F_2O$ [28177-48-2]	7.0×10^{-1}		Hilal et al. (2008)	Q	
4,4'-(hexafluoroisopropylidene)diphenol $C_{15}H_{10}F_6O_2$ [1478-61-1]	1.7×10^{4}		HSDB (2015)	Q	182
	1.7×10^{4}		Zhang et al. (2010)	Q	107, 108
	1.4×10^{6}		Zhang et al. (2010)	Q	107, 109
	2.1×10^{5}		Zhang et al. (2010)	Q	107, 110
	5.3×10^{3}		Zhang et al. (2010)	Q	107, 111
perfluorotributylamine $C_{12}F_{27}N$ [311-89-7]	1.8×10^{-10}		HSDB (2015)	Q	38
	1.8×10^{-10}		Zhang et al. (2010)	Q	107, 108
	3.4×10^{-10}		Zhang et al. (2010)	Q	107, 109
	1.8×10^{-9}		Zhang et al. (2010)	Q	107, 110
	2.7×10^{-10}		Zhang et al. (2010)	Q	107, 111
tris(undecafluoropentyl)amine $C_{15}F_{33}N$ [338-84-1]	1.2×10^{-12}		Zhang et al. (2010)	Q	107, 108
	1.0×10^{-12}		Zhang et al. (2010)	Q	107, 109
	3.4×10^{-10}		Zhang et al. (2010)	Q	107, 110
	2.1×10^{-12}		Zhang et al. (2010)	Q	107, 111
2-fluoroacetamide C_2H_4FNO [640-19-7]	4.4×10^{2}		HSDB (2015)	Q	38
5-fluorouracil $C_4H_3FN_2O_2$ [51-21-8]	5.8×10^{4}		HSDB (2015)	Q	38
1-fluoro-2,4-dinitrobenzene $C_6H_3FN_2O_4$ [70-34-8]	1.0×10^{2}		HSDB (2015)	Q	182
5-fluoro-2-nitrophenol $C_6H_4FNO_3$ [446-36-6]	5.0×10^{-1}		Tremp et al. (1993)	M	9
	5.8		Schwarzenbach et al. (1988)	V	9
		4100	Kühne et al. (2005)	Q	
		6200	Kühne et al. (2005)	?	
4-nitro-3-(trifluoromethyl)phenol $C_7H_4F_3NO_3$ [88-30-2]	5.2×10^{2}		HSDB (2015)	Q	38
	5.2×10^{2}		Zhang et al. (2010)	Q	107, 108
	6.7×10^{3}		Zhang et al. (2010)	Q	107, 109
	3.9×10^{4}		Zhang et al. (2010)	Q	107, 110
	1.2×10^{3}		Zhang et al. (2010)	Q	107, 111
1-nitro-3-(trifluoromethyl)benzene $C_7H_4F_3NO_2$ [98-46-4]	5.3×10^{-2}		Zhang et al. (2010)	Q	107, 108
	2.0×10^{-1}		Zhang et al. (2010)	Q	107, 109
	5.7×10^{-2}		Zhang et al. (2010)	Q	107, 110
	8.2×10^{-3}		Zhang et al. (2010)	Q	107, 111

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1-isocyanato-3-(trifluoromethyl)-benzene	4.8×10^{-3}		Zhang et al. (2010)	Q	107, 108
$C_8H_4F_3NO$	2.5		Zhang et al. (2010)	Q	107, 109
[329-01-1]	1.3×10^{-3}		Zhang et al. (2010)	Q	107, 110
	6.4×10^{-2}		Zhang et al. (2010)	Q	107, 111
flonicamid $C_9H_6F_3N_3O$ [158062-67-0]	2.4×10^{7}		HSDB (2015)	V	
trifluridine $C_{10}H_{11}F_3N_2O_5$ [70-00-8]	1.0×10^{11}		HSDB (2015)	Q	38
N-(4-amino-2-hydroxyphenyl)-2,2,3,3,4,4,4-heptafluorobutanamide	2.0×10^{8}		Zhang et al. (2010)	Q	107, 108
$C_{10}H_7F_7N_2O_2$	2.3×10^{7}		Zhang et al. (2010)	Q	107, 109
[847-51-8]	1.5×10^{5}		Zhang et al. (2010)	Q	107, 110
	5.7×10^{6}		Zhang et al. (2010)	Q	107, 111
fluometuron	5.8×10^{3}		Mackay et al. (2006d)	V	
$C_{10}H_{11}F_3N_2O$	3.8×10^{3}		HSDB (2015)	C	
[2164-17-2]					
dinitramine	7.1		HSDB (2015)	V	
$C_{11}H_{13}F_3N_4O_4$	6.5		Mackay et al. (2006d)	V	
[29091-05-2]	6.2		Suntio et al. (1988)	V	9
5-methyl-N-[4-(trifluoromethyl)phenyl]-4-isoxazolecarboxamide $C_{12}H_9F_3N_2O_2$ (leflunomide) [75706-12-6]	8.0×10^{4}		HSDB (2015)	Q	38
fluconazole $C_{13}H_{12}F_2N_6O$ [86386-73-4]	9.9×10^{7}		HSDB (2015)	Q	38
ethalfluralin $C_{13}H_{14}F_3N_3O_4$ [55283-68-6]	7.6×10^{-2}		HSDB (2015)	V	
benfluralin	3.4×10^{-2}		HSDB (2015)	V	
$C_{13}H_{16}F_3N_3O_4$			Mackay et al. (2006d)	V	221
(benefin)	7.5×10^{-1}		Suntio et al. (1988)	V	9
[1861-40-1]					
trifluralin	9.5×10^{-2}		Rice et al. (1997b)	M	9
$C_{13}H_{16}F_3N_3O_4$	9.1×10^{-1}		Watanabe (1993)	M	
[1582-09-8]	1.9×10^{-1}		Fendinger et al. (1989)	M	126
	1.7×10^{-1}		Fendinger et al. (1989)	M	245
			Mackay et al. (2006d)	V	221
	2.5×10^{-1}		Suntio et al. (1988)	V	9
	3.8		Sanders and Seiber (1983)	V	31
	9.6×10^{-2}		HSDB (2015)	C	
	1.7		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
		5000 2100	Kühne et al. (2005) Kühne et al. (2005)	Q ?	
fluorodifen $C_{13}H_7F_3N_2O_5$ [15457-05-3]	6.5×10^{2}		Mackay et al. (2006d) MacBean (2012a)	V ?	221
profluralin $C_{14}H_{16}F_3N_3O_4$ [26399-36-0]	3.4×10^{-2} 3.2×10^{-2} 2.6×10^{-2} 3.4×10^{-2}		HSDB (2015) Mackay et al. (2006d) Suntio et al. (1988) MacBean (2012a)	V V V ?	 9
flumequine $C_{14}H_{12}FNO_3$ [42835-25-6]	3.7×10^{7}		HSDB (2015)	Q	38
flunitrazepam $C_{16}H_{12}FN_3O_3$ [1622-62-4]	4.3×10^{5}		HSDB (2015)	Q	38
fluazifop-butyl $C_{19}H_{20}F_3NO_4$ [69806-50-4]	4.7×10^{1}		HSDB (2015)	V	
flumioxazin $C_{19}H_{15}FN_2O_4$ [103361-09-7]	1.6×10^{1}		HSDB (2015)	V	
fluridone $C_{19}H_{14}F_3NO$ [59756-60-4]	2.8×10^{3}		HSDB (2015) Mackay et al. (2006d)	V V	 221
cyhalofop-butyl $C_{20}H_{20}FNO_4$ [122008-85-9]	1.0×10^{3}		MacBean (2012b)	X	137
raltegravir $C_{20}H_{21}FN_6O_5$ [518048-05-0]	1.1×10^{17}		HSDB (2015)	Q	38
fluacrypyrim $C_{20}H_{21}N_2O_5F_3$ [229977-93-9]	3.0×10^{2}		MacBean (2012a)	?	9
trifloxystrobin $C_{20}H_{19}F_3N_2O_4$ [141517-21-7]	4.3×10^{2}		MacBean (2012b)	X	137
etoxazole $C_{21}H_{23}F_2NO_2$ [153233-91-1]	9.9×10^{1}		HSDB (2015)	V	
droperidol $C_{22}H_{22}FN_3O_2$ [548-73-2]	3.7×10^{11}		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
paliperidone $C_{23}H_{27}FN_4O_3$ [144598-75-4]	1.2×10^{15}		HSDB (2015)	Q	38
risperidone $C_{23}H_{27}FN_4O_2$ [106266-06-2]	4.5×10^{10}		HSDB (2015)	Q	38
ezetimibe $C_{24}H_{21}F_2NO_3$ [163222-33-1]	2.2×10^{12}		HSDB (2015)	Q	38
cerivastatin $C_{26}H_{34}FNO_5$ [145599-86-6]	1.7×10^{13}		HSDB (2015)	Q	38
flucythrinate, isomer 1 $C_{26}H_{23}F_2NO_4$ [70124-77-5]	1.1×10^{2} 9.3×10^{2}		HSDB (2015) Mackay et al. (2006d)	V V	
PFBHA-methanal $H_2C{=}NOCH_2C_6F_5$	1.6×10^{-2}	7200	Destaillats and Charles (2002)	M	
PFBHA-ethanal $CH_3CH{=}NOCH_2C_6F_5$	1.9×10^{-2}	5400	Destaillats and Charles (2002)	M	
PFBHA-propanone $(CH_3)_2C{=}NOCH_2C_6F_5$	1.1×10^{-2}	3800	Destaillats and Charles (2002)	M	
PFBHA-butanone $(C_2H_5)(CH_3)C{=}NOCH_2C_6F_5$	4.7×10^{-3}	6000	Destaillats and Charles (2002)	M	
PFBHA-2-pentanone $(C_3H_7)(CH_3)C{=}NOCH_2C_6F_5$	3.7×10^{-3}	2200	Destaillats and Charles (2002)	M	
PFBHA-hexanal $C_5H_{11}CH{=}NOCH_2C_6F_5$	5.8×10^{-3}		Destaillats and Charles (2002)	M	
PFBHA-octanal $C_7H_{15}CH{=}NOCH_2C_6F_5$	7.9×10^{-3}		Destaillats and Charles (2002)	M	
PFBHA-decanal $C_9H_{19}CH{=}NOCH_2C_6F_5$	2.4×10^{-2}		Destaillats and Charles (2002)	M	
PFBHA-propenal $CH_2CHCH{=}NOCH_2C_6F_5$	9.5×10^{-3}	5400	Destaillats and Charles (2002)	M	
PFBHA-crotonaldehyde $CH_3CHCHCH{=}NOCH_2C_6F_5$	6.8×10^{-3}	3400	Destaillats and Charles (2002)	M	
PFBHA-benzaldehyde $C_6H_5CH{=}NOCH_2C_6F_5$	5.0×10^{-3}	2000	Destaillats and Charles (2002)	M	
PFBHA-4-methyl-benzaldehyde $C_8H_8{=}NOCH_2C_6F_5$	6.6×10^{-3}		Destaillats and Charles (2002)	M	
PFBHA-9-fluorenone $C_{13}H_8{=}NOCH_2C_6F_5$	1.1×10^{-2}		Destaillats and Charles (2002)	M	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
PFBHA-ethanedial $(\mathrm{HC{=}NOCH_2C_6F_5})_2$	1.6×10^{-2}		Destaillats and Charles (2002)	M	
PFBHA-1-hydroxypropanone $(\mathrm{CH_2OH})(\mathrm{CH_3})\mathrm{C{=}NOCH_2C_6F_5}$	2.7×10^{-2}		Destaillats and Charles (2002)	M	
PFBHA-3-hydroxy-3-methyl-2-butanone $(\mathrm{HOC_3H_6})(\mathrm{CH_3})\mathrm{C{=}NOCH_2C_6F_5}$	1.2×10^{-2}		Destaillats and Charles (2002)	M	
Organic species with chlorine (Cl)					
Chlorocarbons (C, H, Cl)					
chloromethane	1.3×10^{-3}	3300	Sander et al. (2011)	L	246
$\mathrm{CH_3Cl}$	1.1×10^{-3}	3300	Warneck (2007)	L	
(methyl chloride)	1.3×10^{-3}	3300	Sander et al. (2006)	L	247
[74-87-3]	1.1×10^{-3}	3300	Staudinger and Roberts (2001)	L	
	1.1×10^{-3}		Mackay and Shiu (1981)	L	
	1.0×10^{-3}	2800	Wilhelm et al. (1977)	L	
	7.9×10^{-4}	2400	Hiatt (2013)	M	
	9.1×10^{-4}	2000	Chen et al. (2012)	M	
	8.8×10^{-4}	3200	Moore (2000)	M	127
	9.3×10^{-4}	3300	Moore et al. (1995)	M	127
	8.8×10^{-4}	2800	Reichl (1995)	M	
	1.1×10^{-3}	3000	Elliott and Rowland (1993)	M	
	1.2×10^{-3}	4200	Gossett (1987)	M	
	1.4×10^{-3}		Pearson and McConnell (1975)	M	248, 9
	1.1×10^{-3}	2600	Swain and Thornton (1962)	M	
	9.9×10^{-4}	2500	Boggs and Buck (1958)	M	
	1.0×10^{-3}	2900	Glew and Moelwyn-Hughes (1953)	M	
	1.0×10^{-3}		Mackay et al. (2006b)	V	
	4.2×10^{-4}		Lide and Frederikse (1995)	V	
	1.0×10^{-3}		Mackay et al. (1993)	V	
	1.1×10^{-3}		Dilling (1977)	V	249
	1.2×10^{-3}		Dilling (1977)	V	9
	9.9×10^{-4}		Hine and Mookerjee (1975)	V	
	2.9×10^{-4}	-630	Goldstein (1982)	X	116
	2.5×10^{-5}		Ryan et al. (1988)	C	
	1.0×10^{-3}		Hilal et al. (2008)	Q	
		2600	Kühne et al. (2005)	Q	
	3.9×10^{-4}		Nirmalakhandan and Speece (1988a)	Q	
	8.6×10^{-4}		Irmann (1965)	Q	
	1.1×10^{-3}		Mackay et al. (2006b)	?	
		2700	Kühne et al. (2005)	?	
	1.2×10^{-3}		Yaws (1999)	?	
	1.2×10^{-3}		Yaws and Yang (1992)	?	92
	1.0×10^{-3}		Abraham et al. (1990)	?	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
dichloromethane	3.6×10^{-3}	4100	Sander et al. (2011)	L	
CH_2Cl_2	3.9×10^{-3}	3700	Warneck (2007)	L	
(methylene chloride)	3.6×10^{-3}	4100	Sander et al. (2006)	L	
[75-09-2]	3.6×10^{-3}	4100	Staudinger and Roberts (2001)	L	
	3.6×10^{-3}	4100	Staudinger and Roberts (1996)	L	
	3.8×10^{-3}		Mackay and Shiu (1981)	L	
	4.0×10^{-3}	3900	Hiatt (2013)	M	
	3.5×10^{-3}	2300	Chen et al. (2012)	M	
	3.2×10^{-3}		Helburn et al. (2008)	M	
	3.3×10^{-3}	4200	Moore (2000)	M	127
	3.9×10^{-3}		David et al. (2000)	M	126
	4.1×10^{-3}		Ryu and Park (1999)	M	
	3.4×10^{-3}		Chiang et al. (1998)	M	250, 9
	5.1×10^{-3}		Hovorka and Dohnal (1997)	M	9
	3.7×10^{-3}	3200	Kondoh and Nakajima (1997)	M	
	4.3×10^{-3}	3500	Park et al. (1997)	M	
	4.1×10^{-3}		Hoff et al. (1993)	M	
	3.8×10^{-3}		Li et al. (1993)	M	
	3.9×10^{-3}	3800	Wright et al. (1992)	M	
	3.9×10^{-3}	3500	Tse et al. (1992)	M	
	3.4×10^{-3}		Guitart et al. (1989)	M	19
	3.4×10^{-3}	4300	Ashworth et al. (1988)	M	103
	4.6×10^{-3}	3800	Gossett (1987)	M	
	5.7×10^{-3}		Hellmann (1987)	M	31
	5.2×10^{-3}		Yurteri et al. (1987)	M	9
	3.8×10^{-3}	4500	Gossett et al. (1985)	M	
	3.4×10^{-3}	4200	Lincoff and Gossett (1984)	M	
	3.0×10^{-3}	3600	Leighton and Calo (1981)	M	
	3.1×10^{-3}		Warner et al. (1980)	M	
	2.8×10^{-3}		Sato and Nakajima (1979b)	M	19
	3.3×10^{-3}		Pearson and McConnell (1975)	M	248, 9
	4.2×10^{-3}	4400	Hartkopf and Karger (1973)	M	
	4.1×10^{-3}	4000	Rex (1906)	M	
	2.7×10^{-3}		Mackay et al. (2006b)	V	
	3.5×10^{-3}	4100	Fogg and Sangster (2003)	V	
	4.0×10^{-3}		Park et al. (1997)	V	
	5.9×10^{-3}		Mackay et al. (1993)	V	
	2.9×10^{-3}		Hwang et al. (1992)	V	
	3.2×10^{-3}		Warner et al. (1980)	V	
	4.0×10^{-3}		Dilling (1977)	V	249
	1.2×10^{-2}		Dilling (1977)	V	66
	4.3×10^{-3}		Hine and Mookerjee (1975)	V	
	4.0×10^{-3}		Dilling et al. (1975)	V	
	3.1×10^{-3}	3600	Goldstein (1982)	X	116
	4.2×10^{-3}		Harrison et al. (1993)	C	
	3.4×10^{-3}		Harrison et al. (1993)	C	
	4.7×10^{-3}		Ryan et al. (1988)	C	
	3.1×10^{-3}		Shen (1982)	C	
	3.7×10^{-3}		Dilling (1977)	C	
	3.7×10^{-3}		Dilling et al. (1975)	C	
	9.0×10^{-3}		Hilal et al. (2008)	Q	
		3000	Kühne et al. (2005)	Q	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	2.2×10^{-3}		Nirmalakhandan and Speece (1988a)	Q	
	3.3×10^{-3}		Mackay et al. (2006b)	?	
		3900	Kühne et al. (2005)	?	
	4.0×10^{-3}		Yaws (1999)	?	
	3.3×10^{-3}		Mackay et al. (1993)	?	
	4.0×10^{-3}		Yaws and Yang (1992)	?	92
	3.7×10^{-3}		Abraham et al. (1990)	?	
dichloromethane-d2 CD_2Cl_2 (methylene chloride-d2) [1665-00-5]	3.8×10^{-3}	4600	Hiatt (2013)	M	
trichloromethane $CHCl_3$ (chloroform) [67-66-3]	2.5×10^{-3}	4500	Sander et al. (2011)	L	
	2.6×10^{-3}	4300	Warneck (2007)	L	
	2.5×10^{-3}	4500	Sander et al. (2006)	L	
	2.5×10^{-3}	4500	Staudinger and Roberts (2001)	L	
	2.5×10^{-3}	4500	Staudinger and Roberts (1996)	L	
	2.6×10^{-3}		Mackay and Shiu (1981)	L	
	1.6×10^{-3}		Steward et al. (1973)	L	19
	2.8×10^{-3}	4500	Hiatt (2013)	M	
	2.5×10^{-3}	3900	Chen et al. (2012)	M	
	1.4×10^{-3}		Zhang et al. (2002)	M	19
	2.6×10^{-3}	4100	Görgényi et al. (2002)	M	
	2.0×10^{-3}	4600	Moore (2000)	M	127
	2.4×10^{-3}		David et al. (2000)	M	126
	2.7×10^{-3}		Ryu and Park (1999)	M	
	3.0×10^{-3}		Dohnal and Hovorka (1999)	M	9
	3.0×10^{-3}		Chiang et al. (1998)	M	9
	3.2×10^{-3}		Hovorka and Dohnal (1997)	M	9
	2.7×10^{-3}	3400	Kondoh and Nakajima (1997)	M	
	2.6×10^{-3}	3400	Park et al. (1997)	M	
	2.2×10^{-3}	4700	Turner et al. (1996)	M	
	2.2×10^{-3}	4100	Moore et al. (1995)	M	127
	2.6×10^{-3}	4400	Dewulf et al. (1995)	M	
	2.5×10^{-3}		Hoff et al. (1993)	M	
	2.4×10^{-3}		Li et al. (1993)	M	
	2.6×10^{-3}	3900	Wright et al. (1992)	M	
	4.8×10^{-3}	7300	Tancrède and Yanagisawa (1990)	M	
	2.4×10^{-3}	2000	Lamarche and Droste (1989)	M	135
	2.1×10^{-3}		Guitart et al. (1989)	M	19
	2.3×10^{-3}	5000	Ashworth et al. (1988)	M	103
	2.7×10^{-3}	4600	Gossett (1987)	M	
	2.6×10^{-3}	4300	Munz and Roberts (1987)	M	
	2.9×10^{-3}		Hellmann (1987)	M	31
	3.3×10^{-3}		Munz and Roberts (1986)	M	
	2.5×10^{-3}	4300	Gossett et al. (1985)	M	
	2.5×10^{-3}	5200	Nicholson et al. (1984)	M	
	2.3×10^{-3}	4200	Lincoff and Gossett (1984)	M	
	2.0×10^{-3}	3900	Hunter-Smith et al. (1983)	M	127, 251
	2.5×10^{-3}	4000	Leighton and Calo (1981)	M	
	1.5×10^{-3}	5600	Ervin et al. (1980)	M	
	2.9×10^{-3}		Warner et al. (1980)	M	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	2.4×10^{-3}	7200	Balls (1980)	M	
	1.4×10^{-3}		Sato and Nakajima (1979b)	M	19
	3.5×10^{-3}		Pearson and McConnell (1975)	M	248, 9
	2.8×10^{-3}	5100	Hartkopf and Karger (1973)	M	
	2.6×10^{-3}	4600	Rex (1906)	M	
	2.6×10^{-3}		Mackay et al. (2006b)	V	
	2.6×10^{-3}	4400	Fogg and Sangster (2003)	V	
	2.5×10^{-3}		Park et al. (1997)	V	
	2.6×10^{-3}		Mackay et al. (1993)	V	
	2.6×10^{-3}		Hwang et al. (1992)	V	
	5.5×10^{-3}		McLachlan et al. (1990)	V	147
	3.1×10^{-3}		Warner et al. (1980)	V	
	2.5×10^{-3}		Dilling (1977)	V	249
	9.0×10^{-3}		Dilling (1977)	V	66
	2.3×10^{-3}		Hine and Mookerjee (1975)	V	
	2.5×10^{-3}		Dilling et al. (1975)	V	
	2.2×10^{-3}	4700	Winkler (1906)	V	
	2.5×10^{-3}	4100	Barr and Newsham (1987)	X	116
	3.0×10^{-3}	4400	Goldstein (1982)	X	116
	2.4×10^{-3}		Harrison et al. (1993)	C	
	3.4×10^{-3}		Harrison et al. (1993)	C	
	3.4×10^{-3}		Ryan et al. (1988)	C	
	2.7×10^{-3}		Nicholson et al. (1984)	C	
	2.1×10^{-3}		Nicholson et al. (1984)	C	9
	2.9×10^{-3}		Shen (1982)	C	
	3.1×10^{-3}		Dilling (1977)	C	
	3.1×10^{-3}		Dilling et al. (1975)	C	
	3.2×10^{-3}		Hilal et al. (2008)	Q	
		3300	Kühne et al. (2005)	Q	
	3.9×10^{-3}		Nirmalakhandan and Speece (1988a)	Q	
	2.3×10^{-3}		Arbuckle (1983)	Q	
	2.3×10^{-3}		Mackay et al. (2006b)	?	
		4300	Kühne et al. (2005)	?	
	2.4×10^{-3}		Yaws (1999)	?	
	2.3×10^{-3}		Mackay et al. (1993)	?	
	2.4×10^{-3}		Yaws and Yang (1992)	?	92
	2.5×10^{-3}		Abraham et al. (1990)	?	
tetrachloromethane CCl_4 (carbontetrachloride) [56-23-5]	3.4×10^{-4}	4200	Sander et al. (2011)	L	
	3.6×10^{-4}	4300	Warneck (2007)	L	
	3.4×10^{-4}	4200	Sander et al. (2006)	L	
	3.4×10^{-4}	4200	Staudinger and Roberts (2001)	L	
	3.4×10^{-4}	4200	Staudinger and Roberts (1996)	L	
	5.0×10^{-4}		Mackay and Shiu (1981)	L	
	5.0×10^{-4}	4500	Hiatt (2013)	M	
	3.0×10^{-4}	4400	Chen et al. (2012)	M	
	3.8×10^{-4}		Ryu and Park (1999)	M	
	4.0×10^{-4}		Chiang et al. (1998)	M	9
	4.4×10^{-4}	1900	Kondoh and Nakajima (1997)	M	
	3.9×10^{-4}	2600	Park et al. (1997)	M	
	3.8×10^{-4}	4400	Dewulf et al. (1995)	M	
	3.6×10^{-4}		Hoff et al. (1993)	M	
	3.3×10^{-4}	3600	Hansen et al. (1993)	M	105

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	2.3×10^{-4}		Li and Carr (1993)	M	
	2.9×10^{-4}	4200	Wright et al. (1992)	M	
	3.8×10^{-4}	3600	Tse et al. (1992)	M	
	3.4×10^{-4}	4100	Tancrède and Yanagisawa (1990)	M	
	2.8×10^{-4}	5600	Bissonette et al. (1990)	M	
	3.3×10^{-4}	4000	Ashworth et al. (1988)	M	103
	3.3×10^{-4}	4400	Gossett (1987)	M	
	3.3×10^{-4}	4300	Munz and Roberts (1987)	M	
	3.3×10^{-4}		Hellmann (1987)	M	31
	4.3×10^{-4}		Yurteri et al. (1987)	M	9
	4.2×10^{-4}		Munz and Roberts (1986)	M	
	4.1×10^{-4}	3200	Hunter-Smith et al. (1983)	M	251
	3.6×10^{-4}	4400	Leighton and Calo (1981)	M	
	3.3×10^{-4}		Warner et al. (1980)	M	
	3.2×10^{-4}	3300	Balls (1980)	M	
	9.7×10^{-5}		Sato and Nakajima (1979b)	M	19
	4.5×10^{-4}		Pearson and McConnell (1975)	M	248, 9
	3.7×10^{-4}	5200	Hartkopf and Karger (1973)	M	
	3.5×10^{-4}	4400	Rex (1906)	M	
	3.4×10^{-4}		Mackay et al. (2006b)	V	
	3.6×10^{-4}	4200	Fogg and Sangster (2003)	V	
	4.3×10^{-4}		Park et al. (1997)	V	
	3.4×10^{-4}		Mackay et al. (1993)	V	
	3.4×10^{-4}		Hwang et al. (1992)	V	
	6.7×10^{-5}		Ballschmiter and Wittlinger (1991)	V	
	3.5×10^{-4}		Warner et al. (1980)	V	
	3.4×10^{-4}		Dilling (1977)	V	
	3.4×10^{-4}		Hine and Mookerjee (1975)	V	
	3.3×10^{-4}	1100	Goldstein (1982)	X	116
	3.8×10^{-4}		Harrison et al. (1993)	C	
	2.1×10^{-4}		Harrison et al. (1993)	C	
	4.5×10^{-4}		Ryan et al. (1988)	C	
	3.3×10^{-4}		Shen (1982)	C	
	4.6×10^{-4}		Dilling (1977)	C	
	3.7×10^{-4}		Liss and Slater (1974)	C	
	5.4×10^{-4}		Hilal et al. (2008)	Q	
		3700	Kühne et al. (2005)	Q	
	3.5×10^{-4}		Nirmalakhandan and Speece (1988a)	Q	
	4.1×10^{-4}		Arbuckle (1983)	Q	
	1.2×10^{-4}		MacBean (2012a)	?	
	3.3×10^{-4}		Mackay et al. (2006b)	?	
		4300	Kühne et al. (2005)	?	
	3.4×10^{-4}		Yaws (1999)	?	
	3.3×10^{-4}		Mackay et al. (1993)	?	
	3.3×10^{-4}		Yaws and Yang (1992)	?	92
	3.5×10^{-4}		Abraham et al. (1990)	?	
	4.3×10^{-4}		Mackay and Yeun (1983)	?	
	1.1×10^{-3}		Chiou et al. (1980)	?	27

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
chloroethane	8.3×10^{-4}	2800	Warneck (2007)	L	
C_2H_5Cl	8.4×10^{-4}	2900	Staudinger and Roberts (2001)	L	
[75-00-3]	8.3×10^{-4}	2900	Staudinger and Roberts (1996)	L	
	5.0×10^{-3}		Mackay and Shiu (1981)	L	
	4.7×10^{-4}		Steward et al. (1973)	L	19
	8.5×10^{-4}	3200	Hiatt (2013)	M	
	7.6×10^{-4}	3100	Chen et al. (2012)	M	
	8.9×10^{-4}	3200	Maaßen (1995)	M	
	9.4×10^{-4}	3300	Reichl (1995)	M	
	7.9×10^{-4}	2600	Ashworth et al. (1988)	M	103
	8.8×10^{-4}	3100	Gossett (1987)	M	
	5.5×10^{-3}		Mackay et al. (2006b)	V	
	5.5×10^{-3}		Mackay et al. (1993)	V	
	5.6×10^{-4}		Hwang et al. (1992)	V	
	8.8×10^{-4}		Dilling (1977)	V	
	1.2×10^{-3}		Hine and Mookerjee (1975)	V	
	6.8×10^{-4}	750	Goldstein (1982)	X	116
	6.6×10^{-4}		Ryan et al. (1988)	C	
	6.3×10^{-4}		Irmann (1965)	C	
	1.2×10^{-3}		Hilal et al. (2008)	Q	
		3000	Kühne et al. (2005)	Q	
	7.9×10^{-4}		Nirmalakhandan and Speece (1988a)	Q	
	7.6×10^{-4}		Irmann (1965)	Q	
	9.8×10^{-4}		Mackay et al. (2006b)	?	
		2900	Kühne et al. (2005)	?	
	9.8×10^{-4}		Mackay et al. (1993)	?	
	1.4×10^{-3}		Yaws and Yang (1992)	?	92, 9
	1.2×10^{-3}		Abraham et al. (1990)	?	
1,1-dichloroethane	1.7×10^{-3}	4100	Warneck (2007)	L	
$CHCl_2CH_3$	1.8×10^{-3}	4100	Fogg and Sangster (2003)	L	
[75-34-3]	1.6×10^{-3}	3700	Staudinger and Roberts (2001)	L	
	1.5×10^{-3}	3600	Staudinger and Roberts (1996)	L	
	1.7×10^{-3}		Mackay and Shiu (1981)	L	
	2.0×10^{-3}	3900	Hiatt (2013)	M	
	1.9×10^{-3}	3300	Chen et al. (2012)	M	
	2.0×10^{-3}		Bobadilla et al. (2003)	M	
	1.8×10^{-3}	3800	Görgényi et al. (2002)	M	
	2.2×10^{-3}		Hovorka and Dohnal (1997)	M	9
	1.8×10^{-3}	2600	Kondoh and Nakajima (1997)	M	
	2.0×10^{-3}	4300	Dewulf et al. (1995)	M	
	1.6×10^{-3}	3600	Wright et al. (1992)	M	
	1.7×10^{-3}	3700	Tse et al. (1992)	M	
	1.7×10^{-3}	2100	Lamarche and Droste (1989)	M	135
	1.5×10^{-3}	3100	Ashworth et al. (1988)	M	103
	1.8×10^{-3}	4100	Gossett (1987)	M	
	1.3×10^{-3}	4900	Ervin et al. (1980)	M	
	1.8×10^{-3}		Warner et al. (1980)	M	
	1.0×10^{-3}		Sato and Nakajima (1979b)	M	19
	1.8×10^{-3}	4400	Rex (1906)	M	
	1.7×10^{-3}		Mackay et al. (2006b)	V	
	1.6×10^{-3}		Mackay et al. (1993)	V	
	1.8×10^{-3}		Warner et al. (1980)	V	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	1.7×10^{-3}		Dilling (1977)	V	
	1.7×10^{-3}		Hine and Mookerjee (1975)	V	
	1.7×10^{-3}	3800	Barr and Newsham (1987)	X	116
	1.8×10^{-3}	1700	Goldstein (1982)	X	116
	2.4×10^{-3}		Ryan et al. (1988)	C	
	1.8×10^{-3}		Shen (1982)	C	
	3.2×10^{-3}		Hilal et al. (2008)	Q	
		3300	Kühne et al. (2005)	Q	
	1.4×10^{-3}		Nirmalakhandan and Speece (1988a)	Q	
	1.8×10^{-3}		Mackay et al. (2006b)	?	
		3900	Kühne et al. (2005)	?	
	1.6×10^{-3}		Mackay et al. (1993)	?	
	1.7×10^{-3}		Yaws and Yang (1992)	?	92
	1.7×10^{-3}		Abraham et al. (1990)	?	
1,2-dichloroethane CH_2ClCH_2Cl [107-06-2]	8.9×10^{-3}	4300	Warneck (2007)	L	
	9.1×10^{-3}	4300	Fogg and Sangster (2003)	L	
	7.8×10^{-3}	4200	Staudinger and Roberts (2001)	L	
	7.1×10^{-3}	4200	Staudinger and Roberts (1996)	L	
	9.1×10^{-3}		Mackay and Shiu (1981)	L	
	8.2×10^{-3}	4400	Hiatt (2013)	M	
	9.1×10^{-3}	6100	Chen et al. (2012)	M	
	5.4×10^{-3}		Ayuttaya et al. (2001)	M	131
	5.7×10^{-4}		Ayuttaya et al. (2001)	M	132
	4.2×10^{-3}		Ayuttaya et al. (2001)	M	133
	8.1×10^{-3}		Ayuttaya et al. (2001)	M	134
	1.1×10^{-2}		Hovorka and Dohnal (1997)	M	9
	6.2×10^{-3}	3700	Kondoh and Nakajima (1997)	M	
	9.3×10^{-3}	4600	Dewulf et al. (1995)	M	
	8.3×10^{-3}		Hoff et al. (1993)	M	
	8.2×10^{-3}		Li et al. (1993)	M	
	8.5×10^{-3}	3900	Wright et al. (1992)	M	
	8.0×10^{-3}	3600	Tse et al. (1992)	M	
	6.4×10^{-3}	4500	Bissonette et al. (1990)	M	
	5.8×10^{-3}	3000	Lamarche and Droste (1989)	M	135
	7.6×10^{-3}		Guitart et al. (1989)	M	19
	6.4×10^{-3}	1500	Ashworth et al. (1988)	M	103
	8.4×10^{-3}	3500	Leighton and Calo (1981)	M	
	9.0×10^{-3}		Warner et al. (1980)	M	
	4.4×10^{-3}		Sato and Nakajima (1979b)	M	19
	1.1×10^{-2}		Pearson and McConnell (1975)	M	248, 9
	7.9×10^{-3}	4400	Hartkopf and Karger (1973)	M	
	7.2×10^{-3}		Saylor et al. (1938)	M	23
	8.6×10^{-3}	4400	Rex (1906)	M	
	8.2×10^{-3}		Mackay et al. (2006b)	V	
	8.3×10^{-3}		Mackay et al. (1993)	V	
	7.3×10^{-3}		Warner et al. (1980)	V	
	8.1×10^{-3}		Dilling (1977)	V	
	7.5×10^{-3}		Hine and Mookerjee (1975)	V	
	8.5×10^{-3}	3700	Barr and Newsham (1987)	X	116
	9.0×10^{-3}	2400	Goldstein (1982)	X	116
	8.6×10^{-3}		Harrison et al. (1993)	C	
	9.0×10^{-3}		Harrison et al. (1993)	C	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	1.1×10^{-2}		Ryan et al. (1988)	C	
	9.0×10^{-3}		Shen (1982)	C	
	1.0×10^{-2}		Dilling (1977)	C	
	1.0×10^{-2}		Hilal et al. (2008)	Q	
		3300	Kühne et al. (2005)	Q	
	1.8×10^{-3}		Nirmalakhandan and Speece (1988a)	Q	
	4.2×10^{-3}		MacBean (2012a)	?	
	7.0×10^{-3}		Mackay et al. (2006b)	?	
		3600	Kühne et al. (2005)	?	
	7.0×10^{-3}		Mackay et al. (1993)	?	
	8.3×10^{-3}		Yaws and Yang (1992)	?	92
	8.2×10^{-3}		Abraham et al. (1990)	?	
	1.2×10^{-2}		Chiou et al. (1980)	?	27
1,2-dichloroethane-d4 CD_2ClCD_2Cl [17060-07-0]	8.7×10^{-3}	4300	Hiatt (2013)	M	
1,1,1-trichloroethane CH_3CCl_3 (methylchloroform; MCF) [71-55-6]	6.0×10^{-4}	3700	Warneck (2007)	L	
	6.2×10^{-4}	3900	Fogg and Sangster (2003)	L	
	5.9×10^{-4}	4000	Staudinger and Roberts (2001)	L	
	5.8×10^{-4}	3900	Staudinger and Roberts (1996)	L	
	3.6×10^{-4}		Mackay and Shiu (1981)	L	
	6.9×10^{-4}	4000	Hiatt (2013)	M	
	5.4×10^{-4}	4100	Chen et al. (2012)	M	
	6.2×10^{-4}	3500	Vane and Giroux (2000)	M	
	7.1×10^{-4}		Chiang et al. (1998)	M	9
	7.9×10^{-4}		Hovorka and Dohnal (1997)	M	9
	6.7×10^{-4}	1900	Kondoh and Nakajima (1997)	M	
	4.8×10^{-4}		Turner et al. (1996)	M	
	6.7×10^{-4}	4100	Dewulf et al. (1995)	M	
	5.6×10^{-4}	3200	Robbins et al. (1993)	M	
	5.3×10^{-4}		Hoff et al. (1993)	M	
	5.9×10^{-4}	3100	Hansen et al. (1993)	M	105
	5.7×10^{-4}		Li et al. (1993)	M	
	6.0×10^{-4}	3500	Wright et al. (1992)	M	
	6.3×10^{-4}	3700	Tse et al. (1992)	M	
	7.9×10^{-4}	1300	Kolb et al. (1992)	M	102
	5.1×10^{-4}	5200	Bissonette et al. (1990)	M	
	3.2×10^{-4}		Guitart et al. (1989)	M	19
	5.7×10^{-4}	3400	Ashworth et al. (1988)	M	103
	5.9×10^{-4}	4100	Gossett (1987)	M	
	5.8×10^{-4}	4100	Munz and Roberts (1987)	M	
	6.3×10^{-4}		Yurteri et al. (1987)	M	9
	5.7×10^{-4}	4200	Gossett et al. (1985)	M	
	5.9×10^{-4}	4300	Lincoff and Gossett (1984)	M	
	7.6×10^{-4}	3200	Hunter-Smith et al. (1983)	M	251
	4.9×10^{-4}	4400	Leighton and Calo (1981)	M	
	2.7×10^{-4}	7000	Ervin et al. (1980)	M	
	2.0×10^{-3}		Warner et al. (1980)	M	
	3.6×10^{-4}		Sato and Nakajima (1979b)	M	19
	2.9×10^{-4}		Pearson and McConnell (1975)	M	248, 9
	5.9×10^{-4}		Mackay et al. (2006b)	V	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	6.8×10^{-4}		Mackay et al. (1993)	V	
	7.0×10^{-4}	4700	McLinden (1989)	V	
	2.4×10^{-3}		Warner et al. (1980)	V	
	3.4×10^{-4}		Dilling (1977)	V	249
	4.0×10^{-4}		Dilling (1977)	V	9
	1.1×10^{-3}		Dilling (1977)	V	66
	6.1×10^{-4}		Hine and Mookerjee (1975)	V	
	5.9×10^{-4}		Dilling et al. (1975)	V	
	5.8×10^{-4}	4000	Barr and Newsham (1987)	X	116
	2.2×10^{-3}	1700	Goldstein (1982)	X	116
	3.1×10^{-4}		Ryan et al. (1988)	C	
	2.0×10^{-3}		Shen (1982)	C	
	9.0×10^{-4}		Hilal et al. (2008)	Q	
		3700	Kühne et al. (2005)	Q	
	2.3×10^{-3}		Nirmalakhandan and Speece (1988a)	Q	
	1.6×10^{-3}		Arbuckle (1983)	Q	
	5.7×10^{-4}		Mackay et al. (2006b)	?	
		3700	Kühne et al. (2005)	?	
	5.7×10^{-4}		Mackay et al. (1993)	?	
	5.6×10^{-4}		Abraham et al. (1990)	?	
	1.6×10^{-3}		Chiou et al. (1980)	?	27
1,1,2-trichloroethane $CHCl_2CH_2Cl$ [79-00-5]	1.1×10^{-2}	4100	Warneck (2007)	L	
	1.2×10^{-2}	4200	Fogg and Sangster (2003)	L	
	1.1×10^{-2}	4900	Staudinger and Roberts (2001)	L	
	1.1×10^{-2}	4900	Staudinger and Roberts (1996)	L	
	8.3×10^{-3}		Mackay and Shiu (1981)	L	
	1.4×10^{-2}	5400	Hiatt (2013)	M	
	1.2×10^{-2}		Bobadilla et al. (2003)	M	
	1.1×10^{-2}	4700	Dewulf et al. (1999)	M	
	1.5×10^{-2}		Dohnal and Hovorka (1999)	M	9
	1.5×10^{-2}		Hovorka and Dohnal (1997)	M	9
	1.1×10^{-2}	5100	Kondoh and Nakajima (1997)	M	
	1.2×10^{-2}	5900	Hansen et al. (1993)	M	105
	1.2×10^{-2}	3900	Wright et al. (1992)	M	
	1.1×10^{-2}	4100	Tse et al. (1992)	M	
	1.0×10^{-2}	4800	Ashworth et al. (1988)	M	103
	1.2×10^{-2}	3700	Leighton and Calo (1981)	M	
	6.6×10^{-3}		Sato and Nakajima (1979b)	M	19
	1.1×10^{-2}		Mackay et al. (2006b)	V	
	1.0×10^{-2}		Mackay et al. (1993)	V	
	1.1×10^{-2}		Dilling (1977)	V	
	1.1×10^{-2}		Hine and Mookerjee (1975)	V	
	1.1×10^{-2}	4300	Barr and Newsham (1987)	X	116
	1.2×10^{-2}	2700	Goldstein (1982)	X	116
	1.3×10^{-3}		Ryan et al. (1988)	C	
	1.5×10^{-2}		Hilal et al. (2008)	Q	
		3700	Kühne et al. (2005)	Q	
	3.3×10^{-3}		Nirmalakhandan and Speece (1988a)	Q	
	7.6×10^{-3}		Arbuckle (1983)	Q	
	1.1×10^{-2}		Mackay et al. (2006b)	?	
		4200	Kühne et al. (2005)	?	
	1.1×10^{-2}		Mackay et al. (1993)	?	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	1.0×10^{-2}		Yaws and Yang (1992)	?	92
	1.2×10^{-2}		Abraham et al. (1990)	?	
1,1,2-trichloroethane-d3 $CDCl_2CD_2Cl$ [171086-93-4]	1.3×10^{-2}	5100	Hiatt (2013)	M	
1,1,1,2-tetrachloroethane CCl_3CH_2Cl [630-20-6]	4.2×10^{-3}	4600	Warneck (2007)	L	
	2.4×10^{-2}	3200	Staudinger and Roberts (2001)	L	
	3.6×10^{-3}		Mackay and Shiu (1981)	L	
	4.8×10^{-3}	4800	Hiatt (2013)	M	
	4.3×10^{-3}	4100	Kondoh and Nakajima (1997)	M	
	3.9×10^{-3}	4800	Wright et al. (1992)	M	
	4.5×10^{-3}	4600	Tse et al. (1992)	M	
	2.1×10^{-3}		Sato and Nakajima (1979b)	M	19
	4.0×10^{-3}		Mackay et al. (2006b)	V	
	4.2×10^{-3}	5000	Fogg and Sangster (2003)	V	
	4.1×10^{-3}		Mackay et al. (1993)	V	
	3.7×10^{-3}		Dilling (1977)	V	
	3.9×10^{-3}		Hilal et al. (2008)	Q	
		4100	Kühne et al. (2005)	Q	
	5.4×10^{-3}		Nirmalakhandan et al. (1997)	Q	
		4600	Kühne et al. (2005)	?	
	3.5×10^{-3}		Abraham et al. (1990)	?	
1,1,2,2-tetrachloroethane $CHCl_2CHCl_2$ [79-34-5]	2.4×10^{-2}	4800	Warneck (2007)	L	
	2.4×10^{-2}	3200	Staudinger and Roberts (1996)	L	
	2.1×10^{-2}		Mackay and Shiu (1981)	L	
	3.3×10^{-2}	7200	Hiatt (2013)	M	
	3.0×10^{-2}		Hovorka and Dohnal (1997)	M	9
	2.3×10^{-2}	6800	Kondoh and Nakajima (1997)	M	252
	2.9×10^{-2}		Li and Carr (1993)	M	
	2.0×10^{-2}	5000	Wright et al. (1992)	M	
	2.6×10^{-2}	4800	Tse et al. (1992)	M	
	2.2×10^{-2}	2800	Ashworth et al. (1988)	M	103
	2.7×10^{-2}	3500	Leighton and Calo (1981)	M	
	1.4×10^{-2}		Sato and Nakajima (1979b)	M	19
	2.1×10^{-2}		Mackay et al. (2006b)	V	
	2.2×10^{-2}		Mackay et al. (1993)	V	
	2.1×10^{-2}		Dilling (1977)	V	
	2.2×10^{-2}		Hine and Mookerjee (1975)	V	
	1.8×10^{-2}	4200	Barr and Newsham (1987)	X	116
	2.3×10^{-2}	3000	Goldstein (1982)	X	116
	2.5×10^{-2}		Ryan et al. (1988)	C	
	1.9×10^{-2}		Hilal et al. (2008)	Q	
		4100	Kühne et al. (2005)	Q	
	6.1×10^{-3}		Nirmalakhandan and Speece (1988a)	Q	
	3.9×10^{-2}		Mackay et al. (2006b)	?	
		4500	Kühne et al. (2005)	?	
	3.9×10^{-2}		Mackay et al. (1993)	?	
	3.0×10^{-2}		Yaws and Yang (1992)	?	92
	2.6×10^{-2}		Abraham et al. (1990)	?	
	3.0×10^{-2}		Chiou et al. (1980)	?	27

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
pentachloroethane	4.5×10^{-3}		Mackay and Shiu (1981)	L	
$CHCl_2CCl_3$	5.9×10^{-3}	5400	Hiatt (2013)	M	
[76-01-7]	5.2×10^{-3}		HSDB (2015)	V	
	4.1×10^{-3}		Mackay et al. (2006b)	V	
	4.0×10^{-3}		Mackay et al. (1993)	V	
	5.3×10^{-3}		Meylan and Howard (1991)	V	
	4.0×10^{-3}		Dilling (1977)	V	
	4.0×10^{-3}		Hine and Mookerjee (1975)	V	
	6.1×10^{-3}		Hilal et al. (2008)	Q	
	1.9×10^{-2}		Meylan and Howard (1991)	Q	
	1.0×10^{-2}		Nirmalakhandan and Speece (1988a)	Q	
	5.4×10^{-3}		Yaws and Yang (1992)	?	92
	4.2×10^{-3}		Abraham et al. (1990)	?	
hexachloroethane	2.5×10^{-3}	5600	Staudinger and Roberts (1996)	L	
C_2Cl_6	1.2×10^{-3}	2600	Ashworth et al. (1988)	M	103
[67-72-1]	2.5×10^{-3}	5600	Munz and Roberts (1987)	M	
	3.4×10^{-3}		Munz and Roberts (1986)	M	
	1.0×10^{-3}		Warner et al. (1980)	M	
	4.2×10^{-3}		Mackay et al. (2006b)	V	
	3.6×10^{-3}		Lide and Frederikse (1995)	V	
	1.5×10^{-2}		Hwang et al. (1992)	V	
	2.2×10^{-4}		Ballschmiter and Wittlinger (1991)	V	
	7.7×10^{-4}		Mackay and Shiu (1981)	V	
	8.1×10^{-3}		Dilling (1977)	V	
	4.3×10^{-3}		Hine and Mookerjee (1975)	V	
	1.0×10^{-3}	2100	Goldstein (1982)	X	116
	9.8×10^{-4}		Ryan et al. (1988)	C	
	1.0×10^{-3}		Shen (1982)	C	
	2.4×10^{-3}		Zhang et al. (2010)	Q	107, 108
	1.8×10^{-3}		Zhang et al. (2010)	Q	107, 109
	1.9×10^{-3}		Zhang et al. (2010)	Q	107, 110
	3.9×10^{-3}		Zhang et al. (2010)	Q	107, 111
	3.9×10^{-3}		Hilal et al. (2008)	Q	
	1.0×10^{-3}		Nirmalakhandan and Speece (1988a)	Q	
	1.2×10^{-3}		Mackay et al. (2006b)	?	
	1.2×10^{-3}		Mackay et al. (1993)	?	
	4.4×10^{-4}		Yaws and Yang (1992)	?	92
1-chloropropane	6.9×10^{-4}		Li et al. (1993)	M	
C_3H_7Cl	4.3×10^{-4}		Sato and Nakajima (1979b)	M	19
[540-54-5]	7.7×10^{-4}	4400	Rex (1906)	M	
	7.6×10^{-4}		HSDB (2015)	V	
	6.9×10^{-4}		Mackay et al. (2006b)	V	
	7.1×10^{-4}		Mackay et al. (1993)	V	
	7.1×10^{-4}		Abraham (1984)	V	
	7.3×10^{-4}		Hine and Mookerjee (1975)	V	
	1.1×10^{-3}		Hilal et al. (2008)	Q	
		3300	Kühne et al. (2005)	Q	
	6.2×10^{-4}		Nirmalakhandan and Speece (1988a)	Q	
		3500	Kühne et al. (2005)	?	
	9.1×10^{-4}		Yaws and Yang (1992)	?	92, 9
	7.0×10^{-4}		Abraham et al. (1990)	?	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2-chloropropane	5.4×10^{-4}		Li et al. (1993)	M	
C_3H_7Cl	5.6×10^{-4}	4300	Rex (1906)	M	
[75-29-6]	5.5×10^{-4}		HSDB (2015)	V	
	5.6×10^{-4}		Mackay et al. (2006b)	V	
	5.5×10^{-4}		Mackay et al. (1993)	V	
	6.1×10^{-4}		Hine and Mookerjee (1975)	V	
	6.0×10^{-4}		Hilal et al. (2008)	Q	
	5.1×10^{-4}		Nirmalakhandan and Speece (1988a)	Q	
	6.8×10^{-4}		Yaws and Yang (1992)	?	92, 9
	6.1×10^{-4}		Abraham et al. (1990)	?	
1,1-dichloropropane	2.6×10^{-3}		HSDB (2015)	V	
$C_3H_6Cl_2$					
[78-99-9]					
1,2-dichloropropane	3.4×10^{-3}	4300	Staudinger and Roberts (2001)	L	
$C_3H_6Cl_2$	3.4×10^{-3}	4300	Staudinger and Roberts (1996)	L	
[78-87-5]	4.3×10^{-3}	4400	Hiatt (2013)	M	
	4.2×10^{-3}		Bobadilla et al. (2003)	M	
	3.5×10^{-3}	4300	Dewulf et al. (1999)	M	
	4.4×10^{-3}		Dohnal and Hovorka (1999)	M	9
	4.6×10^{-3}		Hovorka and Dohnal (1997)	M	9
	4.3×10^{-3}	3700	Kondoh and Nakajima (1997)	M	
	3.7×10^{-3}	3800	Wright et al. (1992)	M	
	3.8×10^{-3}	3800	Tse et al. (1992)	M	
	3.0×10^{-3}	3800	Bissonette et al. (1990)	M	
	3.8×10^{-3}	4700	Ashworth et al. (1988)	M	103
	3.4×10^{-3}	4300	Leighton and Calo (1981)	M	
	3.5×10^{-3}		Warner et al. (1980)	M	
	2.1×10^{-3}		Sato and Nakajima (1979b)	M	19
	3.7×10^{-3}		Mackay et al. (2006b)	V	
	3.7×10^{-3}		Mackay et al. (1993)	V	
	3.6×10^{-3}		Warner et al. (1980)	V	
	3.4×10^{-3}		Hine and Mookerjee (1975)	V	
	3.4×10^{-3}	2100	Goldstein (1982)	X	116
	3.4×10^{-3}		Ryan et al. (1988)	C	
	3.5×10^{-3}		Shen (1982)	C	
	5.4×10^{-3}		Hilal et al. (2008)	Q	
		3700	Kühne et al. (2005)	Q	
	1.2×10^{-3}		Nirmalakhandan and Speece (1988a)	Q	
	8.5×10^{-4}		MacBean (2012a)	?	
	3.5×10^{-3}		Mackay et al. (2006b)	?	
		4000	Kühne et al. (2005)	?	
	3.5×10^{-3}		Mackay et al. (1993)	?	
	3.7×10^{-3}		Yaws and Yang (1992)	?	92
	3.4×10^{-3}		Abraham et al. (1990)	?	
	4.8×10^{-3}		Mackay and Yeun (1983)	?	
	5.9×10^{-3}		Chiou et al. (1980)	?	27
1,2-dichloropropane-d6	3.6×10^{-3}	4600	Hiatt (2013)	M	
$C_3D_6Cl_2$					
[93952-08-0]					

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1,3-dichloropropane	1.3×10^{-2}	5300	Hiatt (2013)	M	
$C_3H_6Cl_2$	1.1×10^{-2}	5000	Kondoh and Nakajima (1997)	M	
[142-28-9]	1.0×10^{-2}	3900	Leighton and Calo (1981)	M	
	9.9×10^{-3}		Hine and Mookerjee (1975)	V	
	1.8×10^{-2}		Hilal et al. (2008)	Q	
		3700	Kühne et al. (2005)	Q	
	1.4×10^{-3}		Nirmalakhandan and Speece (1988a)	Q	
		3900	Kühne et al. (2005)	?	
	9.9×10^{-3}		Yaws and Yang (1992)	?	92
	9.9×10^{-3}		Abraham et al. (1990)	?	
2,2-dichloropropane	4.4×10^{-4}	7400	Hiatt (2013)	M	
$C_3H_6Cl_2$	8.1×10^{-4}	3900	Bakierowska and Trzeszczyński (2003)	M	
[594-20-7]	7.1×10^{-4}	630	Kondoh and Nakajima (1997)	M	
		3700	Kühne et al. (2005)	Q	
		3900	Kühne et al. (2005)	?	
1,1,1-trichloropropane	3.8×10^{-3}		Yaws et al. (2005)	X	181
$C_3H_5Cl_3$	1.1×10^{-3}		Hilal et al. (2008)	Q	
[7789-89-1]					
1,1,2-trichloropropane	1.4×10^{-2}		Yaws et al. (2005)	X	181
$C_3H_5Cl_3$	7.9×10^{-3}		Hilal et al. (2008)	Q	
[598-77-6]					
1,2,3-trichloropropane	3.6×10^{-2}	3700	Staudinger and Roberts (2001)	L	
$C_3H_5Cl_3$	3.4×10^{-2}	3700	Staudinger and Roberts (1996)	L	
[96-18-4]	4.2×10^{-2}	7200	Hiatt (2013)	M	
	2.8×10^{-2}	5300	Kondoh and Nakajima (1997)	M	
	4.4×10^{-2}	4000	Tancrède and Yanagisawa (1990)	M	
	2.9×10^{-2}	3500	Leighton and Calo (1981)	M	
	2.6×10^{-2}		Mackay et al. (2006b)	V	
	2.6×10^{-2}		Mackay et al. (1993)	V	
	3.1×10^{-2}		Dilling (1977)	V	
	2.2×10^{-2}		Yaws et al. (2005)	X	181
	3.9×10^{-2}		Hilal et al. (2008)	Q	
		4000	Kühne et al. (2005)	Q	
		4100	Kühne et al. (2005)	?	
	2.9×10^{-2}		Yaws and Yang (1992)	?	92
1,1,2,2,3-pentachloropropane	1.4×10^{-2}		Zhang et al. (2010)	Q	107, 108
$C_3H_3Cl_5$	7.3×10^{-2}		Zhang et al. (2010)	Q	107, 109
[16714-68-4]	6.2×10^{-1}		Zhang et al. (2010)	Q	107, 110
	8.6×10^{-3}		Zhang et al. (2010)	Q	107, 111
1-chloro-2-methylpropane	8.3×10^{-3}		Mackay and Shiu (1981)	L	
C_4H_9Cl	7.3×10^{-4}		Hilal et al. (2008)	Q	
[513-36-0]	6.3×10^{-4}		Yaws and Yang (1992)	?	92, 9
2-chloro-2-methylpropane	2.2×10^{-4}		Hilal et al. (2008)	Q	
C_4H_9Cl	3.1×10^{-4}		Nirmalakhandan et al. (1997)	Q	
[507-20-0]	6.4×10^{-5}		Abraham et al. (1990)	?	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1-chlorobutane	6.7×10^{-4}		Dohnal and Hovorka (1999)	M	9
C_4H_9Cl	5.3×10^{-4}		Li et al. (1993)	M	
[109-69-3]	5.9×10^{-4}	3500	Leighton and Calo (1981)	M	
	3.3×10^{-4}		Sato and Nakajima (1979b)	M	19
	4.8×10^{-4}		Mackay et al. (2006b)	V	
	4.8×10^{-4}		Mackay et al. (1993)	V	
	5.3×10^{-4}		Abraham (1984)	V	
	5.1×10^{-4}		Hine and Mookerjee (1975)	V	
	9.0×10^{-4}		Hilal et al. (2008)	Q	
		3700	Kühne et al. (2005)	Q	
	5.0×10^{-4}		Nirmalakhandan and Speece (1988a)	Q	
	6.5×10^{-4}		Mackay et al. (2006b)	?	
		3700	Kühne et al. (2005)	?	
	6.5×10^{-4}		Mackay et al. (1993)	?	
	5.6×10^{-4}		Hoff et al. (1993)	?	7
	5.8×10^{-4}		Yaws and Yang (1992)	?	92
	5.3×10^{-4}		Abraham et al. (1990)	?	
2-chlorobutane	4.1×10^{-4}	4500	Leighton and Calo (1981)	M	
C_4H_9Cl	5.3×10^{-4}		Mackay et al. (2006b)	V	
[78-86-4]	5.3×10^{-4}		Mackay et al. (1993)	V	
	6.2×10^{-4}		Hilal et al. (2008)	Q	
		3700	Kühne et al. (2005)	Q	
	4.2×10^{-4}		Nirmalakhandan et al. (1997)	Q	
	4.4×10^{-4}		Mackay et al. (2006b)	?	
		4500	Kühne et al. (2005)	?	
	4.4×10^{-4}		Mackay et al. (1993)	?	
	5.3×10^{-4}		Yaws and Yang (1992)	?	92
	4.0×10^{-4}		Abraham et al. (1990)	?	
1,1-dichlorobutane	1.3×10^{-3}		Hine and Mookerjee (1975)	V	
$C_4H_8Cl_2$	2.5×10^{-3}		Hilal et al. (2008)	Q	
[541-33-3]	9.2×10^{-4}		Nirmalakhandan and Speece (1988a)	Q	
1,4-dichlorobutane	2.0×10^{-2}	3100	Leighton and Calo (1981)	M	
$C_4H_8Cl_2$	2.6×10^{-2}		Hilal et al. (2008)	Q	
[110-56-5]		4000	Kühne et al. (2005)	Q	
	1.1×10^{-3}		Nirmalakhandan et al. (1997)	Q	
		3700	Kühne et al. (2005)	?	
	2.0×10^{-2}		Abraham et al. (1990)	?	
2,3-dichlorobutane	2.5×10^{-3}		Yaws et al. (2005)	X	181
$C_4H_8Cl_2$	2.8×10^{-3}		Hilal et al. (2008)	Q	
[7581-97-7]					
1-chloropentane	4.2×10^{-4}		Li et al. (1993)	M	
$C_5H_{11}Cl$	4.1×10^{-4}	4700	Leighton and Calo (1981)	M	
[543-59-9]	2.7×10^{-4}		Sato and Nakajima (1979b)	M	19
	4.5×10^{-4}		Mackay et al. (2006b)	V	
	4.5×10^{-4}		Mackay et al. (1993)	V	
	4.5×10^{-4}		Abraham (1984)	V	
	4.3×10^{-4}		Amoore and Buttery (1978)	V	
	4.5×10^{-4}		Hine and Mookerjee (1975)	V	
	7.3×10^{-4}		Hilal et al. (2008)	Q	
		4000	Kühne et al. (2005)	Q	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	3.9×10^{-4}		Nirmalakhandan and Speece (1988a)	Q	
	4.2×10^{-4}		Mackay et al. (2006b)	?	
		4400	Kühne et al. (2005)	?	
	4.2×10^{-4}		Mackay et al. (1993)	?	
	2.0×10^{-4}		Yaws and Yang (1992)	?	92
	4.5×10^{-4}		Abraham et al. (1990)	?	
2-chloropentane $C_5H_{11}Cl$ [625-29-6]	3.6×10^{-4}		Hine and Mookerjee (1975)	V	
	4.8×10^{-4}		Hilal et al. (2008)	Q	
	3.3×10^{-4}		Nirmalakhandan and Speece (1988a)	Q	
	3.6×10^{-4}		Abraham et al. (1990)	?	
3-chloropentane $C_5H_{11}Cl$ [616-20-6]	3.8×10^{-4}		Meylan and Howard (1991)	V	
	3.8×10^{-4}		Hine and Mookerjee (1975)	V	
	4.7×10^{-4}		Hilal et al. (2008)	Q	
	3.9×10^{-4}		Meylan and Howard (1991)	Q	
	3.4×10^{-4}		Nirmalakhandan and Speece (1988a)	Q	
	3.8×10^{-4}		Abraham et al. (1990)	?	
1,2-dichloropentane $C_5H_{10}Cl_2$ [1674-33-5]	4.8×10^{-3}		Yaws et al. (2005)	X	181
	3.1×10^{-3}		Hilal et al. (2008)	Q	
1,5-dichloropentane $C_5H_{10}Cl_2$ [628-76-2]	1.8×10^{-2}	1600	Leighton and Calo (1981)	M	
	2.0×10^{-2}		Hilal et al. (2008)	Q	
		4400	Kühne et al. (2005)	Q	
		4100	Kühne et al. (2005)	?	
2,3-dichloropentane $C_5H_{10}Cl_2$ [600-11-3]	2.9×10^{-3}		Yaws et al. (2005)	X	181
	2.8×10^{-3}		Hilal et al. (2008)	Q	
2-chloro-2-methylbutane $C_5H_{11}Cl$ [594-36-5]	3.0×10^{-3}		Yaws and Yang (1992)	?	92
1-chlorohexane $C_6H_{13}Cl$ [544-10-5]	3.1×10^{-4}		Li et al. (1993)	M	
	4.1×10^{-4}	4500	Leighton and Calo (1981)	M	
	6.1×10^{-4}		Hilal et al. (2008)	Q	
		4300	Kühne et al. (2005)	Q	
	3.1×10^{-4}		Nirmalakhandan et al. (1997)	Q	
		4400	Kühne et al. (2005)	?	
	4.0×10^{-4}		Abraham et al. (1990)	?	
2-chlorohexane $C_6H_{13}Cl$ [638-28-8]	5.0×10^{-4}		Yaws et al. (2005)	X	181
	4.2×10^{-4}		Hilal et al. (2008)	Q	
3-chlorohexane $C_6H_{13}Cl$ [2346-81-8]	5.0×10^{-4}		Yaws et al. (2005)	X	181
	5.0×10^{-4}		Hilal et al. (2008)	Q	
1-chloroheptane $C_7H_{15}Cl$ [629-06-1]	2.5×10^{-4}		Abraham (1984)	V	
	5.1×10^{-4}		Hilal et al. (2008)	Q	
	2.4×10^{-4}		Nirmalakhandan et al. (1997)	Q	
	2.5×10^{-4}		Abraham et al. (1990)	?	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2-chloroheptane $C_7H_{15}Cl$ [1001-89-4]	3.9×10^{-4} 3.4×10^{-4}		Yaws et al. (2005) Hilal et al. (2008)	X Q	181
3-chloroheptane $C_7H_{15}Cl$ [999-52-0]	3.6×10^{-4} 3.4×10^{-4}		Yaws et al. (2005) Hilal et al. (2008)	X Q	181
4-chloroheptane $C_7H_{15}Cl$ [998-95-8]	3.6×10^{-4} 3.5×10^{-4}		Yaws et al. (2005) Hilal et al. (2008)	X Q	181
1-chlorooctane $C_8H_{17}Cl$ [111-85-3]	1.9×10^{-4} 2.6×10^{-4} 1.6×10^{-4} 4.2×10^{-4}	6100	Sarraute et al. (2004) Yaws et al. (2005) HSDB (2015) Hilal et al. (2008)	V X Q Q	 181 38
2-chlorooctane $C_8H_{17}Cl$ [628-61-5]	2.7×10^{-4} 3.1×10^{-4}		Yaws et al. (2005) Hilal et al. (2008)	X Q	181
3-(chloromethyl)-heptane $C_8H_{17}Cl$ [123-04-6]	4.5×10^{-4}		Hilal et al. (2008)	Q	
1,8-dichlorooctane $C_8H_{16}Cl_2$ [2162-99-4]	7.5×10^{-3}	7500	Sarraute et al. (2006)	M	
1-chlorononane $C_9H_{19}Cl$ [2473-01-0]	1.6×10^{-4} 3.5×10^{-4}		Yaws et al. (2005) Hilal et al. (2008)	X Q	181
2-chlorononane $C_9H_{19}Cl$ [2216-36-6]	2.7×10^{-4} 3.0×10^{-4}		Yaws et al. (2005) Hilal et al. (2008)	X Q	181
5-chlorononane $C_9H_{19}Cl$ [28123-70-8]	2.2×10^{-4} 2.6×10^{-4}		Yaws et al. (2005) Hilal et al. (2008)	X Q	181
1-chlorodecane $C_{10}H_{21}Cl$ [1002-69-3]	1.6×10^{-4} 2.5×10^{-4}		Yaws et al. (2005) Hilal et al. (2008)	X Q	181
1,10-dichlorodecane $C_{10}H_{20}Cl_2$ [2162-98-3]	2.0×10^{-3} 5.3×10^{-3}		Drouillard et al. (1998) Hilal et al. (2008)	V Q	
1,2,9,10-tetrachlorodecane $C_{10}H_{18}Cl_4$ [205646-11-3]	5.6×10^{-2} 1.4×10^{-2}		Drouillard et al. (1998) Hilal et al. (2008)	M Q	
pentachlorodecane isomers $C_{10}H_{17}Cl_5$ [175801-37-3]	2.0×10^{-1} 3.8×10^{-1}		Drouillard et al. (1998) Drouillard et al. (1998)	M M	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1-chloroundecane	1.7×10^{-4}		Yaws et al. (2005)	X	181
$C_{11}H_{23}Cl$	2.3×10^{-4}		Hilal et al. (2008)	Q	
[2473-03-2]					
1,2,10,11-tetrachloroundecane	1.6×10^{-1}		Drouillard et al. (1998)	M	
$C_{11}H_{20}Cl_4$	1.1×10^{-2}		Hilal et al. (2008)	Q	
[210049-49-3]					
pentachloroundecane isomers	6.8×10^{-1}		Drouillard et al. (1998)	M	
$C_{11}H_{19}Cl_5$	1.5		Drouillard et al. (1998)	M	
[210175-48-7]					
1-chlorododecane	2.3×10^{-4}		Yaws et al. (2005)	X	181
$C_{12}H_{25}Cl$	1.9×10^{-4}		Hilal et al. (2008)	Q	
[112-52-7]					
1,12-dichlorododecane	1.5×10^{-3}		Drouillard et al. (1998)	V	
$C_{12}H_{24}Cl_2$	3.1×10^{-3}		Hilal et al. (2008)	Q	
[3922-28-9]					
1-chlorotridecane	2.9×10^{-4}		Yaws et al. (2005)	X	181
$C_{13}H_{27}Cl$	1.4×10^{-4}		Hilal et al. (2008)	Q	
[822-13-9]					
1-chlorotetradecane	3.9×10^{-4}		Yaws et al. (2005)	X	181
$C_{14}H_{29}Cl$	1.2×10^{-4}		Hilal et al. (2008)	Q	
[2425-54-9]					
tetrachlorocyclopentane	6.4×10^{-3}		Zhang et al. (2010)	Q	107, 108
$C_5H_6Cl_4$	4.1×10^{-1}		Zhang et al. (2010)	Q	107, 109
[59808-78-5]	1.5		Zhang et al. (2010)	Q	107, 110
	2.9×10^{-2}		Zhang et al. (2010)	Q	107, 111
1,1,2,3,3,4-hexachlorocyclopentane	5.1×10^{-2}		Zhang et al. (2010)	Q	107, 108
$C_5H_4Cl_6$	1.9×10^{-1}		Zhang et al. (2010)	Q	107, 109
[68258-91-3]	1.6		Zhang et al. (2010)	Q	107, 110
	2.2×10^{-2}		Zhang et al. (2010)	Q	107, 111
1,1,2,3,3,4,5-heptachlorocyclopentane	1.5×10^{-1}		Zhang et al. (2010)	Q	107, 108
$C_5H_3Cl_7$	7.9×10^{-1}		Zhang et al. (2010)	Q	107, 109
[68258-90-2]	1.6		Zhang et al. (2010)	Q	107, 110
	8.6×10^{-2}		Zhang et al. (2010)	Q	107, 111
1,2,3,3,4,5-hexachlorocyclopentene	1.4×10^{-2}		Zhang et al. (2010)	Q	107, 108
$C_5H_2Cl_6$	4.4×10^{-2}		Zhang et al. (2010)	Q	107, 109
	4.4×10^{-1}		Zhang et al. (2010)	Q	107, 110
	6.4×10^{-2}		Zhang et al. (2010)	Q	107, 111
heptachlorocyclopentene	3.9×10^{-2}		Zhang et al. (2010)	Q	107, 108
C_5HCl_7	3.5×10^{-2}		Zhang et al. (2010)	Q	107, 109
[62111-47-1]	8.4×10^{-2}		Zhang et al. (2010)	Q	107, 110
	5.4×10^{-2}		Zhang et al. (2010)	Q	107, 111
chlorocyclohexane	2.8×10^{-3}	3300	Bakierowska and Trzeszczyński (2003)	M	
$C_6H_{11}Cl$	3.2×10^{-3}		Hilal et al. (2008)	Q	
[542-18-7]		4200	Kühne et al. (2005)	Q	
		3200	Kühne et al. (2005)	?	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
α-1,2,3,4,5,6-hexachlorocyclohexane	1.5		Xiao et al. (2004)	L	143
$C_6H_6Cl_6$	1.4		Xiao et al. (2004)	L	144
(α-lindane; α-HCH)	3.0	5500	Cetin et al. (2006)	M	
[319-84-6]	1.7	7500	Sahsuvar et al. (2003)	M	
	8.1×10^{-1}		Altschuh et al. (1999)	M	
	1.3	6500	Kucklick et al. (1991)	M	
	4.2×10^{-1}		Atlas et al. (1982)	M	253
	1.1		Mackay et al. (2006d)	V	
	9.1×10^{-1}		Ballschmiter and Wittlinger (1991)	V	
	2.3		Calamari et al. (1991)	V	9
	1.1		Suntio et al. (1988)	V	9
	5.9×10^{-3}	3900	Paasivirta et al. (1999)	T	
	1.8		Suntio et al. (1988)	C	254
	3.9×10^{-2}		Zhang et al. (2010)	Q	107, 108
	7.7		Zhang et al. (2010)	Q	107, 109
	4.0×10^{1}		Zhang et al. (2010)	Q	107, 110
	3.8×10^{-1}		Zhang et al. (2010)	Q	107, 111
		7100	Kühne et al. (2005)	Q	
		7100	Kühne et al. (2005)	?	
β-1,2,3,4,5,6-hexachlorocyclohexane	2.7×10^{1}		Xiao et al. (2004)	L	143
$C_6H_6Cl_6$	2.7×10^{1}		Xiao et al. (2004)	L	144
(β-lindane; β-HCH)	2.8×10^{1}	7800	Sahsuvar et al. (2003)	M	
[319-85-7]	2.2×10^{1}		Altschuh et al. (1999)	M	
	8.6		Mackay et al. (2006d)	V	
	1.4×10^{1}		Ballschmiter and Wittlinger (1991)	V	
	8.3		Suntio et al. (1988)	V	9
	5.6×10^{1}		Suntio et al. (1988)	C	255
	6.7×10^{-1}		Ryan et al. (1988)	C	
		7100	Kühne et al. (2005)	Q	
		7800	Kühne et al. (2005)	?	
γ-1,2,3,4,5,6-hexachlorocyclohexane	3.7		Xiao et al. (2004)	L	143
$C_6H_6Cl_6$	3.3		Xiao et al. (2004)	L	144
(γ-lindane; lindane; γ-HCH)	3.1		Mackay and Shiu (1981)	L	
[58-89-9]	3.9	3300	Cetin et al. (2006)	M	
	6.0	6200	Xie et al. (2004)	M	
	4.3	7500	Sahsuvar et al. (2003)	M	
	1.9		Altschuh et al. (1999)	M	
	2.8	5500	Kucklick et al. (1991)	M	
	4.9		Fendinger et al. (1989)	M	126
	5.0		Fendinger and Glotfelty (1988)	M	126
	6.7		Mackay et al. (2006d)	V	
	3.3		Siebers et al. (1994)	V	
	1.0×10^{1}		Ballschmiter and Wittlinger (1991)	V	
	5.9		Calamari et al. (1991)	V	9
	3.7		McLachlan et al. (1990)	V	147
	7.7		Suntio et al. (1988)	V	9
	6.7×10^{-1}		Caron et al. (1985)	V	
	7.9		Burkhard and Guth (1981)	V	
	3.1		Chiou et al. (1980)	V	
	2.0×10^{1}		Mackay and Leinonen (1975)	V	
	6.2×10^{-2}	7100	Paasivirta et al. (1999)	T	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	3.1×10^{1}		McCarty (1980)	X	145
	2.0×10^{1}		Suntio et al. (1988)	C	9
	5.0		Suntio et al. (1988)	C	255
	1.4		Suntio et al. (1988)	C	
	3.9×10^{-2}		Zhang et al. (2010)	Q	107, 108
	7.7		Zhang et al. (2010)	Q	107, 109
	4.7×10^{1}		Zhang et al. (2010)	Q	107, 110
	3.8×10^{-1}		Zhang et al. (2010)	Q	107, 111
	5.3		Hilal et al. (2008)	Q	
		7100	Kühne et al. (2005)	Q	
		6200	Kühne et al. (2005)	?	
	2.2×10^{1}		Brimblecombe (1986)	?	28
δ-1,2,3,4,5,6-hexachlorocyclohexane	2.3×10^{1}		HSDB (2015)	V	
$C_6H_6Cl_6$	1.4×10^{1}		Mackay et al. (2006d)	V	
(δ-lindane; δ-HCH)	1.4×10^{1}		Suntio et al. (1988)	V	9
[319-86-8]	5.6×10^{1}		Suntio et al. (1988)	C	255
4,5,6,7,8,8-hexachloro-3a,4,7,7a-tetrahydro-4,7-methano-1H-indene	2.0×10^{-2}		HSDB (2015)	Q	38
$C_{10}H_6Cl_6$	2.0×10^{-2}		Zhang et al. (2010)	Q	107, 108
[3734-48-3]	6.2×10^{-3}		Zhang et al. (2010)	Q	107, 109
	2.2		Zhang et al. (2010)	Q	107, 110
	4.2×10^{-1}		Zhang et al. (2010)	Q	107, 111
mirex	1.2×10^{-2}	11000	Yin and Hassett (1986)	M	
$C_{10}Cl_{12}$	1.2×10^{-3}		Mackay et al. (2006d)	V	
(dodecachloropentacyclodecane)	5.8×10^{-2}		McLachlan et al. (1990)	V	147
[2385-85-5]	1.2×10^{-3}		Suntio et al. (1988)	V	9
	9.9×10^{-4}		Suntio et al. (1988)	C	9
	3.9×10^{-3}		Hilal et al. (2008)	Q	
		10000	Kühne et al. (2005)	Q	
		11000	Kühne et al. (2005)	?	
dechlorane plus	1.3		HSDB (2015)	Q	38
$C_{18}H_{12}Cl_{12}$	1.3		Zhang et al. (2010)	Q	107, 108
[13560-89-9]	7.0×10^{-2}		Zhang et al. (2010)	Q	107, 109
	2.1×10^{3}		Zhang et al. (2010)	Q	107, 110
	4.6×10^{1}		Zhang et al. (2010)	Q	107, 111
chloroethene	3.8×10^{-4}	3100	Warneck (2007)	L	
CH_2CHCl	3.9×10^{-4}	3100	Staudinger and Roberts (2001)	L	
(vinyl chloride)	3.9×10^{-4}	3100	Staudinger and Roberts (1996)	L	
[75-01-4]	4.5×10^{-4}	3000	Wilhelm et al. (1977)	L	
	3.9×10^{-4}	3200	Hiatt (2013)	M	
	4.1×10^{-4}	2300	Chen et al. (2012)	M	
			Chiang et al. (1998)	M	250
	4.0×10^{-4}	2900	Ashworth et al. (1988)	M	103
	3.7×10^{-4}	3300	Gossett (1987)	M	
	8.5×10^{-6}		Pearson and McConnell (1975)	M	248, 147
			Mackay et al. (2006b)	V	256
	9.1×10^{-4}		Lide and Frederikse (1995)	V	
	1.2×10^{-4}		Mackay et al. (1993)	V	
	1.1×10^{-4}		Hwang et al. (1992)	V	
	9.4×10^{-6}		Dilling (1977)	V	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	4.2×10^{-4}		Dilling (1977)	V	
	1.8×10^{-4}		Hine and Mookerjee (1975)	V	
	6.5×10^{-4}		Ryan et al. (1988)	C	
	2.1×10^{-4}		Hilal et al. (2008)	Q	
	2.0×10^{-3}		Nirmalakhandan and Speece (1988a)	Q	
	8.1×10^{-4}		Irmann (1965)	Q	
	3.7×10^{-4}		Mackay et al. (2006b)	?	
	3.7×10^{-4}		Mackay et al. (1993)	?	
	4.4×10^{-4}		Yaws and Yang (1992)	?	92
	4.5×10^{-4}		Abraham et al. (1990)	?	
chloroethene-d3 CD_2CDCl (vinyl chloride-d3) [6745-35-3]	3.8×10^{-4}	3100	Hiatt (2013)	M	
1,1-dichloroethene CH_2CCl_2 [75-35-4]	3.7×10^{-4}	3400	Warneck (2007)	L	
	4.0×10^{-4}	3800	Fogg and Sangster (2003)	L	
	3.4×10^{-4}	4000	Staudinger and Roberts (2001)	L	
	3.4×10^{-4}	3900	Staudinger and Roberts (1996)	L	
	4.1×10^{-4}	4600	Hiatt (2013)	M	
	3.7×10^{-4}	4200	Dewulf et al. (1999)	M	
	4.4×10^{-4}		Chiang et al. (1998)	M	9
	4.6×10^{-4}	1600	Kondoh and Nakajima (1997)	M	
	3.5×10^{-4}	3300	Tse et al. (1992)	M	
	3.4×10^{-4}	4500	Bissonette et al. (1990)	M	
	3.7×10^{-4}	2900	Ashworth et al. (1988)	M	103
	3.8×10^{-4}	3700	Gossett (1987)	M	
	1.3×10^{-4}		Yurteri et al. (1987)	M	9
	2.6×10^{-4}	4600	Leighton and Calo (1981)	M	
	1.4×10^{-4}	6600	Ervin et al. (1980)	M	
	6.6×10^{-4}		Warner et al. (1980)	M	
	6.6×10^{-5}		Pearson and McConnell (1975)	M	248, 9
	4.3×10^{-4}		Mackay et al. (2006b)	V	
	3.3×10^{-4}		Lide and Frederikse (1995)	V	
	4.3×10^{-4}		Mackay et al. (1993)	V	
	7.5×10^{-5}		Mackay and Shiu (1981)	V	
	6.5×10^{-4}		Warner et al. (1980)	V	
	5.2×10^{-5}		Dilling (1977)	V	249
	6.1×10^{-5}		Dilling (1977)	V	9
	6.4×10^{-4}	1200	Goldstein (1982)	X	116
	2.2×10^{-3}		Ryan et al. (1988)	C	
	6.6×10^{-4}		Shen (1982)	C	
	1.3×10^{-4}		Hilal et al. (2008)	Q	
		3300	Kühne et al. (2005)	Q	
	3.8×10^{-4}		Mackay et al. (2006b)	?	
		3700	Kühne et al. (2005)	?	
	3.8×10^{-4}		Mackay et al. (1993)	?	
	4.3×10^{-4}		Yaws and Yang (1992)	?	92
	2.7×10^{-4}		Abraham et al. (1990)	?	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1,2-dichloroethene	3.7×10^{-4}		Hilal et al. (2008)	Q	
$C_2H_2Cl_2$	4.5×10^{-3}		Nirmalakhandan and Speece (1988a)	Q	
[540-59-0]					
(Z)-1,2-dichloroethene	2.6×10^{-3}	3700	Warneck (2007)	L	
CHClCHCl	2.5×10^{-3}	4000	Fogg and Sangster (2003)	L	
(*cis*-1,2-dichloroethene)	2.3×10^{-3}	3900	Staudinger and Roberts (2001)	L	
[156-59-2]	2.3×10^{-3}	3900	Staudinger and Roberts (1996)	L	
	2.7×10^{-3}	3800	Hiatt (2013)	M	
	2.5×10^{-3}	3900	Chen et al. (2012)	M	
	2.2×10^{-3}	3100	Shimotori and Arnold (2003)	M	
	1.5×10^{-3}		Ryu and Park (1999)	M	
	3.2×10^{-3}		Hovorka and Dohnal (1997)	M	9
	2.5×10^{-3}	3000	Kondoh and Nakajima (1997)	M	
	1.3×10^{-3}	3100	Park et al. (1997)	M	
	2.4×10^{-3}	3800	Wright et al. (1992)	M	
	2.5×10^{-3}	3800	Tse et al. (1992)	M	
	2.5×10^{-3}	4200	Bissonette et al. (1990)	M	
	2.1×10^{-3}	3100	Ashworth et al. (1988)	M	103
	2.6×10^{-3}	4200	Gossett (1987)	M	
	2.2×10^{-3}		Yurteri et al. (1987)	M	9
	2.2×10^{-3}	4100	Ervin et al. (1980)	M	
	1.1×10^{-3}		Sato and Nakajima (1979b)	M	19
	1.3×10^{-3}		Mackay et al. (2006b)	V	
	1.3×10^{-3}		Park et al. (1997)	V	
	1.3×10^{-3}		Mackay et al. (1993)	V	
	1.3×10^{-3}		Mackay and Shiu (1981)	V	
	1.3×10^{-3}		Dilling (1977)	V	
	2.9×10^{-3}		Hine and Mookerjee (1975)	V	
		3300	Kühne et al. (2005)	Q	
	2.2×10^{-3}		Mackay et al. (2006b)	?	
		4200	Kühne et al. (2005)	?	
	2.2×10^{-3}		Mackay et al. (1993)	?	
	1.3×10^{-3}		Yaws and Yang (1992)	?	92
	1.3×10^{-3}		Abraham et al. (1990)	?	
(E)-1,2-dichloroethene	1.0×10^{-3}	3500	Warneck (2007)	L	
CHClCHCl	1.1×10^{-3}	4200	Fogg and Sangster (2003)	L	
(*trans*-1,2-dichloroethene)	9.0×10^{-4}	4100	Staudinger and Roberts (2001)	L	
[156-60-5]	9.0×10^{-4}	4100	Staudinger and Roberts (1996)	L	
	1.0×10^{-3}	4000	Hiatt (2013)	M	
	1.0×10^{-3}	3500	Shimotori and Arnold (2003)	M	
	1.6×10^{-3}		Ryu and Park (1999)	M	
	1.3×10^{-3}		Hovorka and Dohnal (1997)	M	9
	1.1×10^{-3}	2200	Kondoh and Nakajima (1997)	M	
	1.8×10^{-3}	6200	Park et al. (1997)	M	
	9.5×10^{-4}	4100	Khalfaoui and Newsham (1994b)	M	
	9.8×10^{-4}	3400	Hansen et al. (1993)	M	105
	1.0×10^{-3}	4000	Wright et al. (1992)	M	
	1.0×10^{-3}	3700	Tse et al. (1992)	M	
	9.9×10^{-4}	4300	Cooling et al. (1992)	M	
	8.4×10^{-4}	4800	Bissonette et al. (1990)	M	
	9.9×10^{-4}	3000	Ashworth et al. (1988)	M	103

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	1.1×10^{-3}	4200	Gossett (1987)	M	
	1.1×10^{-3}		Yurteri et al. (1987)	M	9
	7.0×10^{-4}	5400	Ervin et al. (1980)	M	
	1.9×10^{-3}		Warner et al. (1980)	M	
	8.1×10^{-4}		Sato and Nakajima (1979b)	M	19
	1.5×10^{-3}		Mackay et al. (2006b)	V	
	1.5×10^{-3}		Park et al. (1997)	V	
	1.5×10^{-3}		Mackay et al. (1993)	V	
	1.5×10^{-3}		Hwang et al. (1992)	V	
	1.5×10^{-3}		Mackay and Shiu (1981)	V	
	2.4×10^{-3}		Warner et al. (1980)	V	
	1.5×10^{-3}		Dilling (1977)	V	
	1.5×10^{-3}		Hine and Mookerjee (1975)	V	
	1.9×10^{-3}	1700	Goldstein (1982)	X	116
	1.5×10^{-3}		Ryan et al. (1988)	C	
	1.9×10^{-3}		Shen (1982)	C	
		3300	Kühne et al. (2005)	Q	
	1.0×10^{-3}		Mackay et al. (2006b)	?	
		4300	Kühne et al. (2005)	?	
	1.0×10^{-3}		Mackay et al. (1993)	?	
	1.5×10^{-3}		Yaws and Yang (1992)	?	92
	1.5×10^{-3}		Abraham et al. (1990)	?	
trichloroethene	1.1×10^{-3}	4300	Warneck (2007)	L	
C_2HCl_3	1.0×10^{-3}	4300	Fogg and Sangster (2003)	L	
(trichloroethylene)	1.0×10^{-3}	4600	Staudinger and Roberts (2001)	L	
[79-01-6]	9.9×10^{-4}	4600	Staudinger and Roberts (1996)	L	
	6.6×10^{-4}		Steward et al. (1973)	L	19
	1.2×10^{-3}	4700	Hiatt (2013)	M	
	1.3×10^{-3}		Zhang et al. (2013)	M	
	1.0×10^{-3}	3900	Chen et al. (2012)	M	
	9.4×10^{-4}		Helburn et al. (2008)	M	
	1.0×10^{-3}	3900	Shimotori and Arnold (2003)	M	
	1.1×10^{-3}	4200	Görgényi et al. (2002)	M	
	1.2×10^{-3}	3600	Bierwagen and Keller (2001)	M	
	7.6×10^{-4}	4900	Moore (2000)	M	127
	1.0×10^{-3}		David et al. (2000)	M	126
	1.1×10^{-3}	3900	Vane and Giroux (2000)	M	
	9.5×10^{-4}	4900	Dewulf et al. (1999)	M	
	9.5×10^{-4}		Ryu and Park (1999)	M	
	9.3×10^{-4}	3700	Heron et al. (1998)	M	
	1.1×10^{-3}		Chiang et al. (1998)	M	9
	1.4×10^{-3}		Peng and Wan (1998)	M	
	8.7×10^{-4}	4000	Peng and Wan (1998)	M	127
	1.1×10^{-3}	3800	Peng and Wan (1997)	M	
	1.3×10^{-3}		Hovorka and Dohnal (1997)	M	9
	1.1×10^{-3}	2200	Kondoh and Nakajima (1997)	M	
	8.8×10^{-4}	3600	Park et al. (1997)	M	
	8.5×10^{-4}		Turner et al. (1996)	M	
	8.3×10^{-4}		Ramachandran et al. (1996)	M	
	1.2×10^{-3}	3900	Dewulf et al. (1995)	M	
	1.3×10^{-3}		Nielsen et al. (1994)	M	
	9.7×10^{-4}	4300	Khalfaoui and Newsham (1994b)	M	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	9.5×10^{-4}	3500	Robbins et al. (1993)	M	
	1.1×10^{-3}		Hoff et al. (1993)	M	
	1.0×10^{-3}		Li et al. (1993)	M	
	1.1×10^{-3}	4200	Wright et al. (1992)	M	
	1.1×10^{-3}	4200	Tse et al. (1992)	M	
	9.8×10^{-4}	4100	Cooling et al. (1992)	M	
	1.3×10^{-3}	5200	Tancrède and Yanagisawa (1990)	M	
	1.0×10^{-3}	5200	Bissonette et al. (1990)	M	
	9.7×10^{-4}	2000	Lamarche and Droste (1989)	M	135
	5.5×10^{-4}		Guitart et al. (1989)	M	19
	9.5×10^{-4}	3700	Ashworth et al. (1988)	M	103
	1.0×10^{-3}	4800	Gossett (1987)	M	
	9.6×10^{-4}	4700	Munz and Roberts (1987)	M	
	9.8×10^{-4}		Hellmann (1987)	M	31
	9.4×10^{-4}		Yurteri et al. (1987)	M	9
	9.0×10^{-4}	5400	Schoene and Steinhanses (1985)	M	
	1.1×10^{-3}	4300	Gossett et al. (1985)	M	
	1.0×10^{-3}		Garbarini and Lion (1985)	M	
	9.7×10^{-4}	4900	Lincoff and Gossett (1984)	M	
	1.0×10^{-3}	4600	Leighton and Calo (1981)	M	
	7.4×10^{-4}	4800	Ervin et al. (1980)	M	
	8.4×10^{-4}		Warner et al. (1980)	M	
	5.0×10^{-4}		Sato and Nakajima (1979b)	M	19
	1.1×10^{-3}		Pearson and McConnell (1975)	M	248, 9
	8.5×10^{-4}		Mackay et al. (2006b)	V	
	9.9×10^{-4}		Park et al. (1997)	V	
	8.4×10^{-4}		Mackay et al. (1993)	V	
	1.1×10^{-3}		Hwang et al. (1992)	V	
	8.1×10^{-4}		Mackay and Shiu (1981)	V	
	8.4×10^{-4}		Warner et al. (1980)	V	
	8.2×10^{-4}		Dilling (1977)	V	249
	1.0×10^{-3}		Dilling (1977)	V	9
	2.4×10^{-3}		Dilling (1977)	V	66
	8.4×10^{-4}		Hine and Mookerjee (1975)	V	
	8.4×10^{-4}		Dilling et al. (1975)	V	
	8.8×10^{-4}	1600	Goldstein (1982)	X	116
	1.1×10^{-3}		Ryan et al. (1988)	C	
	8.4×10^{-4}		Shen (1982)	C	
	3.0×10^{-4}		Hilal et al. (2008)	Q	
		3600	Kühne et al. (2005)	Q	
	8.4×10^{-3}		Nirmalakhandan and Speece (1988a)	Q	
	9.7×10^{-4}		Mackay et al. (2006b)	?	
		4200	Kühne et al. (2005)	?	
	9.7×10^{-4}		Mackay et al. (1993)	?	
	8.4×10^{-4}		Yaws and Yang (1992)	?	92
	8.4×10^{-4}		Abraham et al. (1990)	?	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
tetrachloroethene	6.2×10^{-4}	4500	Warneck (2007)	L	
C_2Cl_4	6.0×10^{-4}	4200	Fogg and Sangster (2003)	L	
(tetrachloroethylene)	5.9×10^{-4}	4800	Staudinger and Roberts (2001)	L	
[127-18-4]	5.8×10^{-4}	4800	Staudinger and Roberts (1996)	L	
	4.3×10^{-4}		Mackay and Shiu (1981)	L	
	9.9×10^{-4}	4600	Hiatt (2013)	M	
	6.2×10^{-4}	4200	Chen et al. (2012)	M	
	5.8×10^{-4}	4200	Shimotori and Arnold (2003)	M	
	4.1×10^{-4}	5300	Moore (2000)	M	127
	6.0×10^{-4}	4100	Vane and Giroux (2000)	M	
	5.3×10^{-4}		Ryu and Park (1999)	M	
	8.6×10^{-4}		Dohnal and Hovorka (1999)	M	9
	6.2×10^{-4}		Chiang et al. (1998)	M	9
	7.8×10^{-4}		Peng and Wan (1998)	M	
	4.7×10^{-4}	4100	Peng and Wan (1998)	M	127
	6.1×10^{-4}	4200	Peng and Wan (1997)	M	
	8.4×10^{-4}		Hovorka and Dohnal (1997)	M	9
	6.9×10^{-4}	2200	Kondoh and Nakajima (1997)	M	
	5.5×10^{-4}	4200	Park et al. (1997)	M	
	6.9×10^{-4}	4800	Dewulf et al. (1995)	M	
	5.6×10^{-4}	3600	Robbins et al. (1993)	M	
	6.3×10^{-4}		Hoff et al. (1993)	M	
	6.3×10^{-4}		Li et al. (1993)	M	
	8.1×10^{-4}	2100	Kolb et al. (1992)	M	102
	5.9×10^{-4}	5500	Tancrède and Yanagisawa (1990)	M	
	6.2×10^{-4}	5300	Bissonette et al. (1990)	M	
	5.4×10^{-4}	4400	Ashworth et al. (1988)	M	103
	5.6×10^{-4}	4900	Gossett (1987)	M	
	5.4×10^{-4}	4400	Munz and Roberts (1987)	M	
	7.7×10^{-4}		Hellmann (1987)	M	31
	7.5×10^{-4}		Yurteri et al. (1987)	M	9
	6.5×10^{-4}	4600	Gossett et al. (1985)	M	
	5.7×10^{-4}	5100	Lincoff and Gossett (1984)	M	
	6.1×10^{-4}	4700	Leighton and Calo (1981)	M	
	5.7×10^{-4}	5200	Ervin et al. (1980)	M	
	3.4×10^{-4}		Warner et al. (1980)	M	
	1.1×10^{-3}	4300	Gossett (1980)	M	
	1.7×10^{-4}		Sato and Nakajima (1979b)	M	19
	5.0×10^{-4}		Pearson and McConnell (1975)	M	248, 9
	3.7×10^{-4}		Mackay et al. (2006b)	V	
	3.4×10^{-4}		Park et al. (1997)	V	
	3.7×10^{-4}		Mackay et al. (1993)	V	
	3.6×10^{-4}		Hwang et al. (1992)	V	
	3.5×10^{-4}		Warner et al. (1980)	V	
	3.4×10^{-4}		Dilling (1977)	V	249
	4.0×10^{-4}		Dilling (1977)	V	9
	1.2×10^{-3}		Dilling (1977)	V	66
	3.7×10^{-4}		Hine and Mookerjee (1975)	V	
	9.8×10^{-4}		Dilling et al. (1975)	V	
	3.6×10^{-4}	1500	Goldstein (1982)	X	116
	6.3×10^{-4}		Ryan et al. (1988)	C	
	3.4×10^{-4}		Shen (1982)	C	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	8.1×10^{-4}		Dilling (1977)	C	
	8.1×10^{-4}		Dilling et al. (1975)	C	
	1.7×10^{-4}		Hilal et al. (2008)	Q	
		3900	Kühne et al. (2005)	Q	
	8.8×10^{-4}		Nirmalakhandan and Speece (1988a)	Q	
	5.8×10^{-4}		Mackay et al. (2006b)	?	
		5100	Kühne et al. (2005)	?	
	5.8×10^{-4}		Mackay et al. (1993)	?	
	3.7×10^{-4}		Yaws and Yang (1992)	?	92
	3.4×10^{-4}		Abraham et al. (1990)	?	
	2.9×10^{-3}		Chiou et al. (1980)	?	27
dichloroethyne C_2Cl_2 [7572-29-4]	4.9×10^{-4}		HSDB (2015)	Q	38
1-chloro-1-propene C_3H_5Cl [590-21-6]	1.8×10^{-4}		HSDB (2015)	Q	38
2-chloro-1-propene C_3H_5Cl [557-98-2]	1.4×10^{-4}		HSDB (2015)	Q	38
3-chloro-1-propene	9.1×10^{-4}		Mackay and Shiu (1981)	L	
C_3H_5Cl	1.3×10^{-3}	4500	Hiatt (2013)	M	
(allyl chloride)	9.0×10^{-4}		HSDB (2015)	V	
[107-05-1]	4.6×10^{-4}		Mackay et al. (1993)	V	
	9.2×10^{-4}		Dilling (1977)	V	
	1.1×10^{-3}		Hine and Mookerjee (1975)	V	
	4.0×10^{-3}		Hilal et al. (2008)	Q	
	1.8×10^{-3}		Nirmalakhandan et al. (1997)	Q	
	1.7×10^{-3}		Nirmalakhandan and Speece (1988a)	Q	
	1.1×10^{-3}		Yaws and Yang (1992)	?	92
	1.1×10^{-3}		Abraham et al. (1990)	?	
1,1-dichloropropene	6.1×10^{-4}	4200	Hiatt (2013)	M	
$C_3H_4Cl_2$	5.4×10^{-4}	1900	Kondoh and Nakajima (1997)	M	
[563-58-6]					
1,2-dichloropropene	2.0×10^{-3}		HSDB (2015)	V	
$C_3H_4Cl_2$	3.1×10^{-4}		Hilal et al. (2008)	Q	
[563-54-2]					
1,3-dichloropropene	6.4×10^{-3}	4200	Wright et al. (1992)	M	
$C_3H_4Cl_2$	2.8×10^{-3}		Warner et al. (1980)	M	
[542-75-6]	7.3×10^{-3}		Warner et al. (1980)	V	
	2.8×10^{-3}	1500	Goldstein (1982)	X	116
	5.8×10^{-3}		Hilal et al. (2008)	C	
	8.1×10^{-3}		Ryan et al. (1988)	C	
	2.8×10^{-3}		Shen (1982)	C	
	5.7×10^{-3}		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
cis-1,3-dichloropropene	4.2×10^{-3}		Mackay and Shiu (1981)	L	
$C_3H_4Cl_2$	9.5×10^{-3}	5500	Hiatt (2013)	M	
[10061-01-5]	6.3×10^{-3}	4300	Kondoh and Nakajima (1997)	M	
	5.0×10^{-3}	5800	Leistra (1970)	M	
	4.2×10^{-3}		Dilling (1977)	V	
	5.5×10^{-3}		Yates and Gan (1998)	?	
trans-1,3-dichloropropene	5.6×10^{-3}		Mackay and Shiu (1981)	L	
$C_3H_4Cl_2$	5.8×10^{-3}	4800	Hiatt (2013)	M	
[10061-02-6]	1.0×10^{-2}	5000	Kondoh and Nakajima (1997)	M	
	8.1×10^{-3}	5700	Leistra (1970)	M	
	5.6×10^{-3}		Dilling (1977)	V	
	9.4×10^{-3}		Yates and Gan (1998)	?	
2,3-dichloropropene	2.8×10^{-3}		Mackay and Shiu (1981)	L	
$C_3H_4Cl_2$	2.7×10^{-3}		Dilling (1977)	V	
[78-88-6]	3.5×10^{-3}		Albanese et al. (1987)	X	137
	4.8×10^{-3}		Hilal et al. (2008)	Q	
1,2,3-trichloro-1-propene $C_3H_3Cl_3$ [96-19-5]	5.5×10^{-4}		HSDB (2015)	Q	38
1,1,2,3,3,3-hexachloro-1-propene	6.2×10^{-3}		HSDB (2015)	Q	38
C_3Cl_6	9.9×10^{-4}		Hilal et al. (2008)	Q	
[1888-71-7]					
3-chloro-2-methyl-1-propene C_4H_7Cl [563-47-3]	1.1×10^{-3}		HSDB (2015)	V	
(Z)-1-chloro-2-butene	1.2×10^{-3}	2800	Bakierowska and Trzeszczyński (2003)	M	
C_4H_7Cl		3800	Kühne et al. (2005)	Q	
(*cis*-1-chloro-2-butene)		2800	Kühne et al. (2005)	?	
[4628-21-1]					
(E)-1-chloro-2-butene	3.1×10^{-3}	3000	Bakierowska and Trzeszczyński (2003)	M	
C_4H_7Cl		3800	Kühne et al. (2005)	Q	
(*trans*-1-chloro-2-butene)		3000	Kühne et al. (2005)	?	
[4894-61-5]					
1,3-dichloro-2-butene $C_4H_6Cl_2$ [926-57-8]	2.6×10^{-4}		HSDB (2015)	Q	38
1,4-dichloro-2-butene $C_4H_6Cl_2$ [764-41-0]	1.7×10^{-2}		HSDB (2015)	V	
(Z)-1,4-dichloro-2-butene	3.0×10^{-2}	9400	Hiatt (2013)	M	
$C_4H_6Cl_2$	8.2×10^{-3}		HSDB (2015)	V	
[1476-11-5]					
(E)-1,4-dichloro-2-butene	3.5×10^{-2}	6600	Hiatt (2013)	M	
$C_4H_6Cl_2$	1.5×10^{-2}		HSDB (2015)	V	
[110-57-6]	7.2×10^{-2}		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
3,4-dichloro-1-butene $C_4H_6Cl_2$ [760-23-6]	1.1×10^{-3}		HSDB (2015)	V	
1-chloro-2-methylpropene C_4H_7Cl (dimethylvinyl chloride) [513-37-1]	5.2×10^{-4}		HSDB (2015)	V	
			Haynes (2014)	W	257
2-chloro-1,3-butadiene C_4H_5Cl [126-99-8]	4.7×10^{-2}		Mackay et al. (1993)	V	
	1.8×10^{-4}		HSDB (2015)	Q	38
hexachlorobutadiene $CCl_2CClCClCCl_2$ [87-68-3]	8.3×10^{-4}	3100	Fogg and Sangster (2003)	L	
	2.3×10^{-3}	6200	Hiatt (2013)	M	
	6.2×10^{-4}	4900	Dewulf et al. (1999)	M	
	7.0×10^{-4}	2500	Kondoh and Nakajima (1997)	M	
	2.3×10^{-3}		Oliver (1985)	M	
	9.6×10^{-4}		Warner et al. (1980)	M	
	4.0×10^{-4}		Pearson and McConnell (1975)	M	248, 9
	6.1×10^{-4}		Mackay et al. (2006b)	V	
	6.5×10^{-4}		Mackay et al. (1993)	V	
	9.1×10^{-4}		Ballschmiter and Wittlinger (1991)	V	
	3.8×10^{-4}		Warner et al. (1980)	V	
	9.8×10^{-4}	4600	Goldstein (1982)	X	116
	9.7×10^{-4}		Hilal et al. (2008)	C	
	9.4×10^{-4}		Ryan et al. (1988)	C	
	9.6×10^{-4}		Shen (1982)	C	
	9.0×10^{-4}		Zhang et al. (2010)	Q	107, 108
	5.0×10^{-4}		Zhang et al. (2010)	Q	107, 109
	2.3×10^{-3}		Zhang et al. (2010)	Q	107, 110
	1.7×10^{-2}		Zhang et al. (2010)	Q	107, 111
	6.2×10^{-4}		Hilal et al. (2008)	Q	
		5300	Kühne et al. (2005)	Q	
		3500	Kühne et al. (2005)	?	
hexachlorocyclopentadiene C_5Cl_6 [77-47-4]	3.7×10^{-4}		Wolfe et al. (1982)	M	
	6.0×10^{-4}		Warner et al. (1980)	M	
	6.1×10^{-4}		Mackay et al. (2006b)	V	
	6.0×10^{-4}		Mackay et al. (1993)	V	
	6.2×10^{-4}		Wolfe et al. (1982)	V	
	2.7×10^{-4}		Warner et al. (1980)	V	
	6.0×10^{-4}	1500	Goldstein (1982)	X	116
	2.7×10^{-4}		Ryan et al. (1988)	C	
	6.0×10^{-4}		Shen (1982)	C	
	4.6×10^{-3}		Zhang et al. (2010)	Q	107, 108
	5.3×10^{-3}		Zhang et al. (2010)	Q	107, 109
	1.4×10^{-2}		Zhang et al. (2010)	Q	107, 110
	1.6×10^{-2}		Zhang et al. (2010)	Q	107, 111
	2.3×10^{-3}		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
chlordane	1.8×10^{-1}		Fendinger et al. (1989)	M	126
$C_{10}H_6Cl_8$	1.2×10^{-1}		Fendinger et al. (1989)	M	245
[57-74-9]	2.1×10^{-1}		Warner et al. (1980)	M	
	1.1×10^{-1}		Suntio et al. (1988)	V	9
	2.0×10^{-1}		Suntio et al. (1988)	C	
	1.1×10^{-1}		Suntio et al. (1988)	C	
	1.0×10^{-1}		Ryan et al. (1988)	C	
	2.1×10^{-1}		Shen (1982)	C	
	1.4×10^{-1}		Zhang et al. (2010)	Q	107, 108
	4.8×10^{-2}		Zhang et al. (2010)	Q	107, 109
	2.4×10^{1}		Zhang et al. (2010)	Q	107, 110
	1.5		Zhang et al. (2010)	Q	107, 111
	5.3×10^{-2}		Hilal et al. (2008)	Q	
cis-chlordane	1.7×10^{-1}		Shen and Wania (2005)	L	143
$C_{10}H_6Cl_8$	1.8×10^{-1}		Shen and Wania (2005)	L	144
(α-chlordane)	3.7×10^{-2}	4100	Jantunen and Bidleman (2006)	M	
[5103-71-9]	1.5×10^{-1}	6100	Cetin et al. (2006)	M	
	1.1×10^{-2}		Atlas et al. (1982)	M	253
			Mackay et al. (2006d)	V	221
	4.8×10^{-3}	7300	Paasivirta et al. (1999)	T	
trans-chlordane	1.7×10^{-1}		Shen and Wania (2005)	L	143
$C_{10}H_6Cl_8$	1.5×10^{-1}		Shen and Wania (2005)	L	144
(β-chlordane; γ-chlordane)	3.4×10^{-2}	3500	Jantunen and Bidleman (2006)	M	
[5103-74-2]	6.3×10^{-2}	7600	Cetin et al. (2006)	M	
	7.4×10^{-3}		Atlas et al. (1982)	M	253
			Mackay et al. (2006d)	V	221
	3.6×10^{-3}	7100	Paasivirta et al. (1999)	T	
cis-nonachlor	1.4	5100	Cetin et al. (2006)	M	
$C_{10}H_5Cl_9$					
[5103-73-1]					
trans-nonachlor	3.1×10^{-2}	4800	Jantunen and Bidleman (2006)	M	
$C_{10}H_5Cl_9$	8.8×10^{-2}	8000	Cetin et al. (2006)	M	
[39765-80-5]	7.9×10^{-4}	7600	Paasivirta et al. (1999)	T	
chlorobenzene	2.7×10^{-3}	3800	Staudinger and Roberts (2001)	L	
C_6H_5Cl	2.7×10^{-3}	3800	Staudinger and Roberts (1996)	L	
[108-90-7]	2.9×10^{-3}		Mackay and Shiu (1981)	L	
	3.7×10^{-3}	4400	Hiatt (2013)	M	
	1.7×10^{-3}	1300	Lau et al. (2010)	M	89
	2.4×10^{-3}		Li et al. (2008)	M	
	1.5×10^{-3}	2300	Lei et al. (2004)	M	122
	2.5×10^{-3}	4300	Dewulf et al. (1999)	M	
	1.9×10^{-3}		Ryu and Park (1999)	M	
	3.6×10^{-3}		Dohnal and Hovorka (1999)	M	9
	3.4×10^{-3}		de Wolf and Lieder (1998)	M	31
	3.2×10^{-3}		Shiu and Mackay (1997)	M	
	3.5×10^{-3}		Hovorka and Dohnal (1997)	M	9
	3.0×10^{-3}	3600	Kondoh and Nakajima (1997)	M	
	1.9×10^{-3}	1700	Park et al. (1997)	M	
	2.9×10^{-3}		Ramachandran et al. (1996)	M	
	3.0×10^{-3}	1900	Khalfaoui and Newsham (1994b)	M	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	2.6×10^{-3}		Hoff et al. (1993)	M	
	3.1×10^{-3}	2900	Ettre et al. (1993)	M	89
	2.5×10^{-3}		Li and Carr (1993)	M	
	3.1×10^{-3}	2000	Cooling et al. (1992)	M	
	2.4×10^{-3}	4700	Bissonette et al. (1990)	M	
	2.5×10^{-3}	2700	Ashworth et al. (1988)	M	103
	2.9×10^{-3}		Hellmann (1987)	M	31
	3.1×10^{-3}		Yurteri et al. (1987)	M	9
	3.2×10^{-3}		Mackay and Shiu (1981)	M	
	3.0×10^{-3}	3500	Leighton and Calo (1981)	M	
	2.9×10^{-3}	4200	Ervin et al. (1980)	M	
	2.5×10^{-3}		Warner et al. (1980)	M	
	2.6×10^{-3}		Mackay et al. (1979)	M	
	1.6×10^{-3}		Sato and Nakajima (1979b)	M	19
	2.8×10^{-3}	4900	Hartkopf and Karger (1973)	M	
	2.7×10^{-3}		Mackay et al. (2006b)	V	
	2.9×10^{-3}	2400	Fogg and Sangster (2003)	V	
	2.7×10^{-3}		Shiu and Mackay (1997)	V	
	2.8×10^{-3}		Park et al. (1997)	V	
	2.9×10^{-3}		Lide and Frederikse (1995)	V	
	2.7×10^{-3}		Mackay et al. (1993)	V	
	2.7×10^{-3}		Mackay et al. (1992a)	V	
	2.5×10^{-3}		Hwang et al. (1992)	V	
	2.7×10^{-3}		Bobra et al. (1985)	V	
	2.7×10^{-3}		Yoshida et al. (1983)	V	
	2.7×10^{-3}		Cabani et al. (1981)	V	
	2.7×10^{-3}		Warner et al. (1980)	V	
	2.2×10^{-3}		Hine and Mookerjee (1975)	V	
	2.7×10^{-3}		Mackay et al. (1979)	T	
	2.5×10^{-3}	2100	Goldstein (1982)	X	116
	2.7×10^{-3}		Schüürmann (2000)	C	7
	2.7×10^{-3}		Ryan et al. (1988)	C	
	2.5×10^{-3}		Shen (1982)	C	
	4.0×10^{-3}		Hilal et al. (2008)	Q	
		4000	Kühne et al. (2005)	Q	
	2.8×10^{-3}		Delgado and Alderete (2002)	Q	
	1.5×10^{-3}		Myrdal and Yalkowsky (1994)	Q	
	4.2×10^{-3}		Nirmalakhandan and Speece (1988a)	Q	
	1.8×10^{-3}		Arbuckle (1983)	Q	
		4000	Kühne et al. (2005)	?	
	2.6×10^{-3}		Mackay et al. (1993)	?	
	2.2×10^{-3}		Yaws and Yang (1992)	?	92
	2.8×10^{-3}		Abraham et al. (1990)	?	
	3.8×10^{-3}		Mackay and Yeun (1983)	?	
chlorobenzene-d5 C_6D_5Cl [3114-55-4]	3.6×10^{-3}	4500	Hiatt (2013)	M	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1,2-dichlorobenzene	6.8×10^{-3}	5300	Fogg and Sangster (2003)	L	258
$C_6H_4Cl_2$	5.4×10^{-3}	5900	Staudinger and Roberts (2001)	L	
(*o*-dichlorobenzene)	5.4×10^{-3}	5900	Staudinger and Roberts (1996)	L	
[95-50-1]	5.3×10^{-3}		Mackay and Shiu (1981)	L	
	8.0×10^{-3}	4200	Hiatt (2013)	M	
	6.3×10^{-3}		Li et al. (2008)	M	
	4.7×10^{-3}		Ryu and Park (1999)	M	
	5.1×10^{-3}		Shiu and Mackay (1997)	M	
	7.2×10^{-3}		Hovorka and Dohnal (1997)	M	9
	6.2×10^{-3}	5000	Kondoh and Nakajima (1997)	M	
	4.9×10^{-3}	4400	Park et al. (1997)	M	
	4.8×10^{-3}		Li and Carr (1993)	M	
	4.9×10^{-3}	5100	Bissonette et al. (1990)	M	
	5.3×10^{-3}	1400	Ashworth et al. (1988)	M	103
	8.2×10^{-3}		Oliver (1985)	M	
	5.9×10^{-3}	6700	Gossett et al. (1985)	M	
	5.2×10^{-3}		Mackay and Shiu (1981)	M	
	5.1×10^{-3}		Warner et al. (1980)	M	
	3.5×10^{-3}		Sato and Nakajima (1979b)	M	19
	5.6×10^{-3}		Mackay et al. (2006b)	V	
	4.1×10^{-3}		Shiu and Mackay (1997)	V	
	8.6×10^{-3}		Park et al. (1997)	V	
	8.3×10^{-3}		Lide and Frederikse (1995)	V	
	4.1×10^{-3}		Mackay et al. (1992a)	V	
	6.0×10^{-3}		Hwang et al. (1992)	V	
	4.1×10^{-3}		Bobra et al. (1985)	V	
	4.9×10^{-3}		Warner et al. (1980)	V	
	4.0×10^{-3}		Hine and Mookerjee (1975)	V	
	5.2×10^{-3}	2800	Goldstein (1982)	X	116
	5.2×10^{-3}		Schüürmann (2000)	C	7
	2.7×10^{-3}		Ryan et al. (1988)	C	
	5.1×10^{-3}		Shen (1982)	C	
	8.2×10^{-3}		Hilal et al. (2008)	Q	
		4400	Kühne et al. (2005)	Q	
	7.1×10^{-3}		Delgado and Alderete (2002)	Q	
	2.3×10^{-3}		Myrdal and Yalkowsky (1994)	Q	
	8.4×10^{-3}		Nirmalakhandan and Speece (1988a)	Q	
		4800	Kühne et al. (2005)	?	
	3.3×10^{-3}		Yaws and Yang (1992)	?	92
	5.1×10^{-3}		Abraham et al. (1990)	?	
	6.2×10^{-3}		Chiou et al. (1980)	?	27
1,2-dichlorobenzene-d4 $C_6D_4Cl_2$ (*o*-dichlorobenzene-d4) [2199-69-1]	8.2×10^{-3}	4200	Hiatt (2013)	M	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1,3-dichlorobenzene	3.4×10^{-3}	4300	Fogg and Sangster (2003)	L	
$C_6H_4Cl_2$	2.8×10^{-3}		Mackay and Shiu (1981)	L	
(m-dichlorobenzene)	5.2×10^{-3}	4800	Hiatt (2013)	M	
[541-73-1]	2.9×10^{-3}		Li et al. (2008)	M	
	3.7×10^{-3}		de Wolf and Lieder (1998)	M	31
	4.7×10^{-3}		Hovorka and Dohnal (1997)	M	9
	3.8×10^{-3}	4400	Kondoh and Nakajima (1997)	M	
	3.4×10^{-3}		Hoff et al. (1993)	M	
	3.0×10^{-3}	2600	Ashworth et al. (1988)	M	103
	5.5×10^{-3}		Oliver (1985)	M	
	3.8×10^{-3}		Warner et al. (1980)	M	
	2.1×10^{-3}		Sato and Nakajima (1979b)	M	19
	3.1×10^{-3}		Mackay et al. (2006b)	V	
	2.7×10^{-3}		Shiu and Mackay (1997)	V	
	5.6×10^{-3}		Lide and Frederikse (1995)	V	
	2.7×10^{-3}		Mackay et al. (1992a)	V	
	2.7×10^{-3}		Bobra et al. (1985)	V	
	3.3×10^{-3}		Warner et al. (1980)	V	
	2.1×10^{-3}		Hine and Mookerjee (1975)	V	
	3.9×10^{-3}	2400	Goldstein (1982)	X	116
	3.7×10^{-3}		Ryan et al. (1988)	C	
	3.8×10^{-3}		Shen (1982)	C	
	4.7×10^{-3}		Hilal et al. (2008)	Q	
		4100	Kühne et al. (2005)	Q	
	4.5×10^{-3}		Delgado and Alderete (2002)	Q	
	2.3×10^{-3}		Myrdal and Yalkowsky (1994)	Q	
	8.4×10^{-3}		Nirmalakhandan and Speece (1988a)	Q	
		4500	Kühne et al. (2005)	?	
	3.0×10^{-3}		Yaws and Yang (1992)	?	92
	2.7×10^{-3}		Abraham et al. (1990)	?	
1,4-dichlorobenzene	4.5×10^{-3}	4400	Fogg and Sangster (2003)	L	
$C_6H_4Cl_2$	6.2×10^{-3}		Mackay and Shiu (1981)	L	
(p-dichlorobenzene)	5.8×10^{-3}	4600	Hiatt (2013)	M	
[106-46-7]	3.3×10^{-3}		Li et al. (2008)	M	
	2.5×10^{-3}		Chiang et al. (1998)	M	9
	4.1×10^{-3}		Shiu and Mackay (1997)	M	
	5.4×10^{-3}		Hovorka and Dohnal (1997)	M	9
	4.7×10^{-3}	4800	Kondoh and Nakajima (1997)	M	
	3.1×10^{-3}	2700	Ashworth et al. (1988)	M	103
	5.2×10^{-3}		Yurteri et al. (1987)	M	9
	6.6×10^{-3}		Oliver (1985)	M	
	4.2×10^{-3}		Mackay and Shiu (1981)	M	
	3.6×10^{-3}		Warner et al. (1980)	M	
	4.1×10^{-3}		Mackay et al. (2006b)	V	
	6.3×10^{-3}		Shiu and Mackay (1997)	V	
	6.7×10^{-3}		Lide and Frederikse (1995)	V	
	6.3×10^{-3}		Mackay et al. (1992a)	V	
	3.8×10^{-3}		Suntio et al. (1988)	V	9
	5.8×10^{-3}		Bobra et al. (1985)	V	
	2.2×10^{-3}		Hine and Mookerjee (1975)	V	
	3.7×10^{-3}	2700	Goldstein (1982)	X	116
	4.1×10^{-3}		Schüürmann (2000)	C	7

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	4.1×10^{-3}		Ryan et al. (1988)	C	
	3.6×10^{-3}		Shen (1982)	C	
	6.5×10^{-3}		Hilal et al. (2008)	Q	
		4100	Kühne et al. (2005)	Q	
	4.1×10^{-3}		Delgado and Alderete (2002)	Q	
	2.3×10^{-3}		Myrdal and Yalkowsky (1994)	Q	
	8.4×10^{-3}		Nirmalakhandan and Speece (1988a)	Q	
	2.1×10^{-3}		Arbuckle (1983)	Q	
		3700	Kühne et al. (2005)	?	
	2.3×10^{-3}		Yaws and Yang (1992)	?	92
	3.8×10^{-3}		Abraham et al. (1990)	?	
1,2,3-trichlorobenzene $C_6H_3Cl_3$ [87-61-6]	1.5×10^{-2}	4800	Hiatt (2013)	M	
	6.3×10^{-3}	4600	Brockbank et al. (2013)	M	
	8.0×10^{-3}		Lee et al. (2012)	M	
	3.6×10^{-3}	4200	Dewulf et al. (1999)	M	
	7.9×10^{-3}		Shiu and Mackay (1997)	M	
	1.5×10^{-2}	7300	Kondoh and Nakajima (1997)	M	
	1.4×10^{-2}		ten Hulscher et al. (1992)	M	9
	1.1×10^{-2}		Oliver (1985)	M	
	7.9×10^{-3}		Mackay and Shiu (1981)	M	
	4.1×10^{-3}		Mackay et al. (2006b)	V	
	5.8×10^{-3}		Fogg and Sangster (2003)	V	
	2.1×10^{-3}		Fogg and Sangster (2003)	V	
	4.1×10^{-3}		Shiu and Mackay (1997)	V	
	3.3×10^{-3}		Abraham et al. (1994a)	V	
	4.1×10^{-3}		Mackay et al. (1992a)	V	
	4.2×10^{-3}		Bobra et al. (1985)	V	
	4.3×10^{-3}		Mackay and Shiu (1981)	V	
	4.5×10^{-3}		Zhang et al. (2010)	Q	107, 108
	6.9×10^{-3}		Zhang et al. (2010)	Q	107, 109
	1.6×10^{-2}		Zhang et al. (2010)	Q	107, 110
	5.2×10^{-3}		Zhang et al. (2010)	Q	107, 111
	8.0×10^{-3}		Hilal et al. (2008)	Q	
		4800	Kühne et al. (2005)	Q	
	1.1×10^{-2}		Delgado and Alderete (2002)	Q	
	3.5×10^{-3}		Myrdal and Yalkowsky (1994)	Q	
	1.8×10^{-2}		Nirmalakhandan and Speece (1988a)	Q	
		4200	Kühne et al. (2005)	?	
1,2,3-trichlorobenzene-d3 $C_6D_3Cl_3$ [3907-98-0]	1.5×10^{-2}	4600	Hiatt (2013)	M	
1,2,4-trichlorobenzene $C_6H_3Cl_3$ [120-82-1]	1.1×10^{-2}	5100	Hiatt (2013)	M	
	5.8×10^{-3}		Lee et al. (2012)	M	
	2.4×10^{-3}	3500	Dewulf et al. (1999)	M	259
	2.7×10^{-3}		Ryu and Park (1999)	M	
	6.5×10^{-3}	5500	Kondoh and Nakajima (1997)	M	
	9.9×10^{-3}		ten Hulscher et al. (1992)	M	9
	4.6×10^{-3}	4000	Ashworth et al. (1988)	M	103
	8.2×10^{-3}		Oliver (1985)	M	
	7.0×10^{-3}		Warner et al. (1980)	M	
			Mackay et al. (2006b)	V	256

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	7.1×10^{-3}		Fogg and Sangster (2003)	V	
	8.6×10^{-3}		Fogg and Sangster (2003)	V	
	3.6×10^{-3}		Shiu and Mackay (1997)	V	
	7.1×10^{-3}		Lide and Frederikse (1995)	V	
	3.6×10^{-3}		Mackay et al. (1992a)	V	
	4.8×10^{-3}		McLachlan et al. (1990)	V	147
	3.6×10^{-3}		Bobra et al. (1985)	V	
	2.5×10^{-3}		Yoshida et al. (1983)	V	
	2.6×10^{-3}		Mackay and Shiu (1981)	V	
	4.3×10^{-3}		Warner et al. (1980)	V	
	7.0×10^{-3}		Goldstein (1982)	X	181
	7.0×10^{-3}	2500	Goldstein (1982)	X	116
	6.9×10^{-3}		Meylan and Howard (1991)	C	
	4.2×10^{-4}		Ryan et al. (1988)	C	
	7.0×10^{-3}		Shen (1982)	C	
	4.5×10^{-3}		Zhang et al. (2010)	Q	107, 108
	7.7×10^{-3}		Zhang et al. (2010)	Q	107, 109
	1.5×10^{-2}		Zhang et al. (2010)	Q	107, 110
	4.6×10^{-3}		Zhang et al. (2010)	Q	107, 111
	9.9×10^{-3}		Hilal et al. (2008)	Q	
		4500	Kühne et al. (2005)	Q	
	6.7×10^{-3}		Delgado and Alderete (2002)	Q	
	1.6×10^{-2}		Nirmalakhandan et al. (1997)	Q	
	3.5×10^{-3}		Myrdal and Yalkowsky (1994)	Q	
	4.5×10^{-3}		Meylan and Howard (1991)	Q	
		3200	Kühne et al. (2005)	?	
1,2,4-trichlorobenzene-d3 $C_6D_3Cl_3$ [2199-72-6]	9.8×10^{-3}	4600	Hiatt (2013)	M	
1,3,5-trichlorobenzene $C_6H_3Cl_3$ [108-70-3]	1.8×10^{-3}	4100	Dewulf et al. (1999)	M	260
	5.2×10^{-3}		ten Hulscher et al. (1992)	M	9
	3.5×10^{-2}		Hellmann (1987)	M	31
	5.2×10^{-3}		Oliver (1985)	M	
			Mackay et al. (2006b)	V	256
	1.4×10^{-3}		Fogg and Sangster (2003)	V	
	8.5×10^{-4}		Fogg and Sangster (2003)	V	
	9.1×10^{-4}		Shiu and Mackay (1997)	V	
	1.0×10^{-2}		Lide and Frederikse (1995)	V	
	1.5×10^{-3}		Abraham et al. (1994a)	V	
	9.1×10^{-4}		Mackay et al. (1992a)	V	
	9.1×10^{-4}		Bobra et al. (1985)	V	
	6.2×10^{-3}		Mackay and Shiu (1981)	V	
	4.6×10^{-3}		Hilal et al. (2008)	Q	
		4200	Kühne et al. (2005)	Q	
	4.6×10^{-3}		Delgado and Alderete (2002)	Q	
	1.6×10^{-2}		Nirmalakhandan et al. (1997)	Q	
	3.5×10^{-3}		Myrdal and Yalkowsky (1994)	Q	
	4.5×10^{-3}		Meylan and Howard (1991)	Q	
		4400	Kühne et al. (2005)	?	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1,2,3,4-tetrachlorobenzene	3.5×10^{-3}		Ryu and Park (1999)	M	
$C_6H_2Cl_4$	1.3×10^{-2}	4800	ten Hulscher et al. (1992)	M	
[634-66-2]	5.7×10^{-2}		Hellmann (1987)	M	31
	1.4×10^{-2}		Oliver (1985)	M	
	9.0×10^{-3}		Mackay et al. (2006b)	V	
	6.9×10^{-3}		Shiu and Mackay (1997)	V	
	6.9×10^{-3}		Mackay et al. (1992a)	V	
	5.8×10^{-3}		McLachlan et al. (1990)	V	147
	6.9×10^{-3}		Bobra et al. (1985)	V	
	3.8×10^{-3}		Mackay and Shiu (1981)	V	
	6.1×10^{-3}		Zhang et al. (2010)	Q	107, 108
	7.7×10^{-3}		Zhang et al. (2010)	Q	107, 109
	2.1×10^{-2}		Zhang et al. (2010)	Q	107, 110
	4.6×10^{-3}		Zhang et al. (2010)	Q	107, 111
	8.6×10^{-3}		Hilal et al. (2008)	Q	
		5200	Kühne et al. (2005)	Q	
	1.1×10^{-2}		Delgado and Alderete (2002)	Q	
	5.7×10^{-3}		Myrdal and Yalkowsky (1994)	Q	
	6.1×10^{-3}		Meylan and Howard (1991)	Q	
		4500	Kühne et al. (2005)	?	
1,2,3,5-tetrachlorobenzene	6.3×10^{-3}		Shiu and Mackay (1997)	M	
$C_6H_2Cl_4$	1.0×10^{-2}		ten Hulscher et al. (1992)	M	9
[634-90-2]	6.3×10^{-3}		Mackay and Shiu (1981)	M	
	1.7×10^{-3}		Mackay et al. (2006b)	V	
	2.1×10^{-3}		Fogg and Sangster (2003)	V	
	1.8×10^{-3}		Fogg and Sangster (2003)	V	
	1.7×10^{-3}		Shiu and Mackay (1997)	V	
	1.7×10^{-3}		Mackay et al. (1992a)	V	
	1.7×10^{-3}		Bobra et al. (1985)	V	
	1.7×10^{-3}		Mackay and Shiu (1981)	V	
	6.3×10^{-3}		Meylan and Howard (1991)	C	
	7.7×10^{-3}		Hilal et al. (2008)	Q	
	7.1×10^{-3}		Delgado and Alderete (2002)	Q	
	3.2×10^{-2}		Nirmalakhandan et al. (1997)	Q	
	5.7×10^{-3}		Myrdal and Yalkowsky (1994)	Q	
	6.1×10^{-3}		Meylan and Howard (1991)	Q	
	2.4×10^{-2}		Nirmalakhandan and Speece (1988a)	Q	
1,2,4,5-tetrachlorobenzene	1.8×10^{-2}		McPhedran et al. (2013)	M	
$C_6H_2Cl_4$	6.6×10^{-3}		Lee et al. (2012)	M	
[95-94-3]	9.9×10^{-3}		Oliver (1985)	M	
	8.2×10^{-3}		Mackay et al. (2006b)	V	
	2.8×10^{-4}		Fogg and Sangster (2003)	V	
	1.1×10^{-3}		Fogg and Sangster (2003)	V	
	8.2×10^{-3}		Shiu and Mackay (1997)	V	
	8.2×10^{-3}		Mackay et al. (1992a)	V	
	8.2×10^{-3}		Bobra et al. (1985)	V	
	3.8×10^{-3}		Mackay and Shiu (1981)	V	
	6.1×10^{-3}		Zhang et al. (2010)	Q	107, 108
	8.4×10^{-3}		Zhang et al. (2010)	Q	107, 109
	1.8×10^{-2}		Zhang et al. (2010)	Q	107, 110
	4.8×10^{-3}		Zhang et al. (2010)	Q	107, 111

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	9.2×10^{-3}		Hilal et al. (2008)	Q	
	6.8×10^{-3}		Delgado and Alderete (2002)	Q	
	3.2×10^{-2}		Nirmalakhandan et al. (1997)	Q	
	5.7×10^{-3}		Myrdal and Yalkowsky (1994)	Q	
	6.1×10^{-3}		Meylan and Howard (1991)	Q	
pentachlorobenzene	1.4×10^{-2}	5200	Shen and Wania (2005)	L	143
C_6HCl_5	1.4×10^{-2}	5600	Shen and Wania (2005)	L	144
[608-93-5]	3.0×10^{-2}		McPhedran et al. (2013)	M	
	5.6×10^{-3}		Lee et al. (2012)	M	
	1.4×10^{-2}	5200	ten Hulscher et al. (1992)	M	
	2.0×10^{-1}		Hellmann (1987)	M	31
	1.4×10^{-2}		Oliver (1985)	M	
	1.2×10^{-2}		Mackay et al. (2006b)	V	
	3.5×10^{-2}		Fogg and Sangster (2003)	V	
	2.4×10^{-2}		Fogg and Sangster (2003)	V	
	1.2×10^{-2}		Shiu and Mackay (1997)	V	
	1.2×10^{-2}		Mackay et al. (1992a)	V	
	1.2×10^{-2}		Bobra et al. (1985)	V	
	1.0×10^{-3}		Mackay and Shiu (1981)	V	
	8.2×10^{-3}		Zhang et al. (2010)	Q	107, 108
	6.9×10^{-3}		Zhang et al. (2010)	Q	107, 109
	1.8×10^{-2}		Zhang et al. (2010)	Q	107, 110
	7.0×10^{-3}		Zhang et al. (2010)	Q	107, 111
	7.2×10^{-3}		Hilal et al. (2008)	Q	
		5700	Kühne et al. (2005)	Q	
	7.9×10^{-3}		Delgado and Alderete (2002)	Q	
	9.4×10^{-3}		Myrdal and Yalkowsky (1994)	Q	
		5100	Kühne et al. (2005)	?	
hexachlorobenzene	1.9×10^{-2}	6000	Shen and Wania (2005)	L	143
C_6Cl_6	1.5×10^{-2}	6400	Shen and Wania (2005)	L	144
[118-74-1]	3.3×10^{-2}		McPhedran et al. (2013)	M	
	7.6×10^{-3}		Lee et al. (2012)	M	
	3.0×10^{-2}	6900	Jantunen and Bidleman (2006)	M	
	4.2×10^{-2}		Altschuh et al. (1999)	M	
	3.8×10^{-5}	570	Hansen et al. (1993)	M	105
	2.0×10^{-2}	5700	ten Hulscher et al. (1992)	M	
	2.6		Hellmann (1987)	M	31
	2.1×10^{-2}		Oliver (1985)	M	
	1.4×10^{-2}		Atlas et al. (1983)	M	126
	7.5×10^{-3}		Atlas et al. (1982)	M	253
	5.8×10^{-3}		Warner et al. (1980)	M	
	7.6×10^{-3}		Mackay et al. (2006b)	V	
	7.6×10^{-3}		Shiu and Mackay (1997)	V	
	7.7×10^{-3}		Lide and Frederikse (1995)	V	
	7.6×10^{-3}		Mackay et al. (1992a)	V	
	7.1×10^{-3}		Ballschmiter and Wittlinger (1991)	V	
	1.1×10^{-2}		Calamari et al. (1991)	V	9
	1.4×10^{-1}		Riederer (1990)	V	
	2.5×10^{-2}		McLachlan et al. (1990)	V	147
	1.4×10^{-1}		Suntio et al. (1988)	V	9
	7.2×10^{-3}		Bobra et al. (1985)	V	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	1.6×10^{-2}		Yoshida et al. (1983)	V	
	2.0×10^{-1}		Mackay and Shiu (1981)	V	
	3.0×10^{-3}	3700	Paasivirta et al. (1999)	T	
	5.8×10^{-3}	1600	Goldstein (1982)	X	116
	1.0×10^{-2}		Hilal et al. (2008)	C	
	1.5×10^{-2}		Suntio et al. (1988)	C	9
	5.8×10^{-3}		Ryan et al. (1988)	C	
	5.8×10^{-3}		Shen (1982)	C	
	1.1×10^{-2}		Zhang et al. (2010)	Q	107, 108
	6.1×10^{-3}		Zhang et al. (2010)	Q	107, 109
	1.6×10^{-2}		Zhang et al. (2010)	Q	107, 110
	1.0×10^{-2}		Zhang et al. (2010)	Q	107, 111
	2.0×10^{-2}		Hilal et al. (2008)	Q	
		6400	Kühne et al. (2005)	Q	
	6.5×10^{-3}		Delgado and Alderete (2002)	Q	
	1.6×10^{-2}		Myrdal and Yalkowsky (1994)	Q	
	8.6×10^{-3}		Nirmalakhandan and Speece (1988a)	Q	
		7200	Kühne et al. (2005)	?	
	2.4×10^{-5}		Yaws and Yang (1992)	?	92
(chloromethyl)-benzene	2.0×10^{-2}	7200	Hiatt (2013)	M	
$C_6H_5CH_2Cl$	2.8×10^{-2}		Hovorka and Dohnal (1997)	M	9
(benzylchloride)	1.2×10^{-2}		Li and Carr (1993)	M	
[100-44-7]	2.4×10^{-2}		HSDB (2015)	V	
	2.9×10^{-2}		Lide and Frederikse (1995)	V	
	1.6×10^{-2}		Mackay and Shiu (1981)	V	
	3.0×10^{-2}		Hilal et al. (2008)	Q	
	1.0×10^{-2}		Abraham et al. (1990)	?	
1-chloro-2-methylbenzene	3.2×10^{-3}	4100	Hiatt (2013)	M	
C_7H_7Cl	2.4×10^{-3}	3400	Kondoh and Nakajima (1997)	M	
(o-chlorotoluene)	2.8×10^{-3}	3500	Leighton and Calo (1981)	M	
[95-49-8]	1.9×10^{-2}	3000	Goldstein (1982)	X	116
	2.8×10^{-3}		Schüürmann (2000)	C	7
	4.3×10^{-3}		Hilal et al. (2008)	Q	
		4400	Kühne et al. (2005)	Q	
	3.1×10^{-3}		Nirmalakhandan et al. (1997)	Q	
		4900	Kühne et al. (2005)	?	
	2.8×10^{-3}		Abraham et al. (1990)	?	
1-chloro-3-methylbenzene	6.2×10^{-4}		Schüürmann (2000)	V	
C_7H_7Cl	3.8×10^{-3}		Hilal et al. (2008)	Q	
(m-chlorotoluene)		4400	Kühne et al. (2005)	Q	
[108-41-8]		4800	Kühne et al. (2005)	?	
1-chloro-4-methylbenzene	4.1×10^{-3}	4200	Hiatt (2013)	M	
C_7H_7Cl	2.9×10^{-3}	3900	Kondoh and Nakajima (1997)	M	
(p-chlorotoluene)	2.2×10^{-3}		HSDB (2015)	V	
[106-43-4]	4.0×10^{-3}		Hilal et al. (2008)	Q	
		4400	Kühne et al. (2005)	Q	
		4300	Kühne et al. (2005)	?	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
(dichloromethyl)-benzene	1.3×10^{-2}		Zhang et al. (2010)	Q	107, 108
$C_7H_6Cl_2$	3.4×10^{-2}		Zhang et al. (2010)	Q	107, 109
[98-87-3]	1.1×10^{-1}		Zhang et al. (2010)	Q	107, 110
	1.0×10^{-2}		Zhang et al. (2010)	Q	107, 111
	3.9×10^{-2}		Hilal et al. (2008)	Q	
1,2-dichloro-4-methylbenzene	7.9×10^{-3}		Hilal et al. (2008)	Q	
$C_7H_6Cl_2$					
[95-75-0]					
1,3-dichloro-2-methylbenzene	2.3×10^{-3}		HSDB (2015)	Q	38
$C_7H_6Cl_2$	3.1×10^{-3}		Zhang et al. (2010)	Q	107, 108
[118-69-4]	8.6×10^{-3}		Zhang et al. (2010)	Q	107, 109
	4.2×10^{-3}		Zhang et al. (2010)	Q	107, 110
	1.8×10^{-3}		Zhang et al. (2010)	Q	107, 111
1-methyl-2,4-dichlorobenzene	2.7×10^{-3}	4900	Brockbank et al. (2013)	M	
$C_7H_6Cl_2$	2.3×10^{-3}		HSDB (2015)	Q	38
(2,4-dichlorotoluene)	3.1×10^{-3}		Zhang et al. (2010)	Q	107, 108
[95-73-8]	5.4×10^{-3}		Zhang et al. (2010)	Q	107, 109
	6.7×10^{-3}		Zhang et al. (2010)	Q	107, 110
	1.8×10^{-3}		Zhang et al. (2010)	Q	107, 111
		4400	Kühne et al. (2005)	Q	
		5500	Kühne et al. (2005)	?	
1-methyl-2,4,5-trichlorobenzene	6.6×10^{-3}		Oliver (1985)	M	
$C_7H_5Cl_3$	1.2×10^{-2}		Hilal et al. (2008)	Q	
(2,4,5-Trichlorotoluene)	4.1×10^{-3}		Meylan and Howard (1991)	Q	
[6639-30-1]					
1-methyl-2,3,6-trichlorobenzene	6.6×10^{-3}		Oliver (1985)	M	
$C_7H_5Cl_3$	1.4×10^{-2}		Hilal et al. (2008)	Q	
(2,3,6-Trichlorotoluene)	4.1×10^{-3}		Meylan and Howard (1991)	Q	
[2077-46-5]					
pentachloromethylbenzene	1.3×10^{-2}		Oliver (1985)	M	
$C_7H_3Cl_5$	1.6×10^{-2}		Hilal et al. (2008)	Q	
(2,3,4,5,6-pentachlorotoluene)	7.4×10^{-3}		Meylan and Howard (1991)	Q	
[877-11-2]					
1-chloro-2-(chloromethyl)benzene	6.4×10^{-3}		Zhang et al. (2010)	Q	107, 108
$C_7H_6Cl_2$	7.2×10^{-2}		Zhang et al. (2010)	Q	107, 109
[611-19-8]	2.1×10^{-1}		Zhang et al. (2010)	Q	107, 110
	6.1×10^{-3}		Zhang et al. (2010)	Q	107, 111
1-chloro-4-(chloromethyl)benzene	2.9×10^{-2}		HSDB (2015)	Q	38
$C_7H_6Cl_2$	6.4×10^{-3}		Zhang et al. (2010)	Q	107, 108
[104-83-6]	7.5×10^{-2}		Zhang et al. (2010)	Q	107, 109
	8.2×10^{-2}		Zhang et al. (2010)	Q	107, 110
	6.1×10^{-3}		Zhang et al. (2010)	Q	107, 111
chloro(dichloromethyl)benzene	1.8×10^{-2}		Zhang et al. (2010)	Q	107, 108
$C_7H_5Cl_3$	7.3×10^{-2}		Zhang et al. (2010)	Q	107, 109
[88-66-4]	5.4×10^{-2}		Zhang et al. (2010)	Q	107, 110
	1.3×10^{-2}		Zhang et al. (2010)	Q	107, 111

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
(trichloromethyl)-benzene	3.8×10^{-2}		HSDB (2015)	Q	38
$C_7H_5Cl_3$	3.8×10^{-2}		Zhang et al. (2010)	Q	107, 108
[98-07-7]	7.2×10^{-3}		Zhang et al. (2010)	Q	107, 109
	2.0×10^{-2}		Zhang et al. (2010)	Q	107, 110
	4.7×10^{-3}		Zhang et al. (2010)	Q	107, 111
1-chloro-4-(trichloromethyl)benzene	5.1×10^{-2}		Zhang et al. (2010)	Q	107, 108
$C_7H_4Cl_4$	1.8×10^{-2}		Zhang et al. (2010)	Q	107, 109
[5216-25-1]	3.4×10^{-2}		Zhang et al. (2010)	Q	107, 110
	6.9×10^{-3}		Zhang et al. (2010)	Q	107, 111
1-chloro-3-ethenylbenzene C_8H_7Cl [2039-85-2]	4.7×10^{-3}		HSDB (2015)	Q	38
1-chloro-4-ethenylbenzene C_8H_7Cl [1073-67-2]	4.7×10^{-3}		HSDB (2015)	Q	38
1,4-dichloro-2,5-dimethylbenzene	2.7×10^{-3}		Zhang et al. (2010)	Q	107, 108
$C_8H_8Cl_2$	1.2×10^{-2}		Zhang et al. (2010)	Q	107, 109
[1124-05-6]	4.6×10^{-3}		Zhang et al. (2010)	Q	107, 110
	2.3×10^{-3}		Zhang et al. (2010)	Q	107, 111
1,4-bis(trichloromethyl)benzene	7.9×10^{-1}		Zhang et al. (2010)	Q	107, 108
$C_8H_4Cl_6$	3.7×10^{-2}		Zhang et al. (2010)	Q	107, 109
[68-36-0]	1.1×10^{-1}		Zhang et al. (2010)	Q	107, 110
	5.8×10^{-3}		Zhang et al. (2010)	Q	107, 111
α,α-dichloro-*o*-xylene $C_8H_8Cl_2$ [612-12-4]	1.0×10^{-1}	11000	Hiatt (2013)	M	
2-chlorostyrene	4.7×10^{-3}		HSDB (2015)	Q	38
C_8H_7Cl	6.2×10^{-3}		Hilal et al. (2008)	Q	
[2039-87-4]					
octachlorostyrene	7.6×10^{-2}		Oliver (1985)	M	
C_8Cl_8	4.3×10^{-2}		HSDB (2015)	Q	38
[29082-74-4]	1.6×10^{-2}		Hilal et al. (2008)	Q	
	4.3×10^{-2}		Meylan and Howard (1991)	Q	
1-chloronaphthalene	2.8×10^{-2}		Shiu and Mackay (1997)	M	
$C_{10}H_7Cl$	2.8×10^{-3}		Mackay and Shiu (1981)	M	
[90-13-1]	4.7×10^{-2}		Yaws et al. (2005)	X	181
	5.7×10^{-2}		Hilal et al. (2008)	Q	
	6.5×10^{-2}		Nirmalakhandan and Speece (1988a)	Q	
2-chloronaphthalene	3.0×10^{-2}		Shiu and Mackay (1997)	M	
$C_{10}H_7Cl$	3.1×10^{-2}		Mackay and Shiu (1981)	M	
[91-58-7]	1.5×10^{-2}		Hwang et al. (1992)	V	
	1.6×10^{-2}	3800	Goldstein (1982)	X	116
	3.1×10^{-2}		Ryan et al. (1988)	C	
	6.0×10^{-2}		Hilal et al. (2008)	Q	
	6.5×10^{-2}		Nirmalakhandan and Speece (1988a)	Q	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1,2,3-trichloronaphthalene $C_{10}H_5Cl_3$ [1321-65-9]	3.2×10^{-2}		HSDB (2015)	Q	38
1,2,3,4-tetrachloronaphthalene $C_{10}H_4Cl_4$ [20020-02-4]	4.1×10^{-2}		HSDB (2015)	V	
1,2,3,4,5-pentachloronaphthalene $C_{10}H_3Cl_5$ [1321-64-8]	8.2×10^{-2}		HSDB (2015)	Q	38
1,2,3,4,5,6-hexachloronaphthalene $C_{10}H_2Cl_6$ [1335-87-1]	1.1×10^{-1}		HSDB (2015)	Q	38
octachloronaphthalene $C_{10}Cl_8$ [2234-13-1]	1.4×10^{-2}		HSDB (2015)	V	
heptachlor $C_{10}H_5Cl_7$ [76-44-8]	3.3×10^{-2}		Shen and Wania (2005)	L	143
	2.6×10^{-2}		Shen and Wania (2005)	L	144
	1.9×10^{-2}	4300	Cetin et al. (2006)	M	
	3.4×10^{-2}		Altschuh et al. (1999)	M	
	6.7×10^{-3}		Warner et al. (1980)	M	
	2.8×10^{-3}		Mackay et al. (2006d)	V	
	8.9×10^{-3}		Suntio et al. (1988)	V	9
	4.3×10^{-3}		McCarty (1980)	X	145
	6.7×10^{-3}		Meylan and Howard (1991)	C	
	6.5×10^{-3}		Ryan et al. (1988)	C	
	6.7×10^{-3}		Shen (1982)	C	
	2.4×10^{-2}		Hilal et al. (2008)	Q	
	5.6×10^{-2}		Meylan and Howard (1991)	Q	
	2.8×10^{-3}		MacBean (2012a)	?	
1,3-dichloronaphthalene $C_{10}H_6Cl_2$ [2198-75-6]	3.4×10^{-2}		Zhang et al. (2010)	Q	107, 108
	7.0×10^{-2}		Zhang et al. (2010)	Q	107, 109
	4.2×10^{-2}		Zhang et al. (2010)	Q	107, 110
	4.7×10^{-2}		Zhang et al. (2010)	Q	107, 111
1-chloro-2-methyl-2-phenylpropane $C_{10}H_{13}Cl$ [515-40-2]	2.0×10^{-3}		Zhang et al. (2010)	Q	107, 108
	9.5×10^{-3}		Zhang et al. (2010)	Q	107, 109
	1.6×10^{-2}		Zhang et al. (2010)	Q	107, 110
	1.6×10^{-3}		Zhang et al. (2010)	Q	107, 111
1,3-dichloro-5-[(2*S*)-2,4,4,4-tetrachlorobutan-2-yl]benzene $C_{10}H_8Cl_6$ [73588-42-8]	8.4×10^{-2}		Zhang et al. (2010)	Q	107, 108
	6.1×10^{-2}		Zhang et al. (2010)	Q	107, 109
	1.5		Zhang et al. (2010)	Q	107, 110
	2.9×10^{-3}		Zhang et al. (2010)	Q	107, 111

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1,2,3,4,5,6,7,8,8-nonachloro-2,3,3a,4,7,7a-hexahydro-4,7-methano-1H-indene $C_{10}H_5Cl_9$ (nonachlor) [3734-49-4]	3.9×10^{-1}		HSDB (2015)	Q	38
1,1-dichloro-2,2-bis-(4-chlorophenyl)-ethane	1.5		Shen and Wania (2005)	L	143
$C_{14}H_{10}Cl_4$	2.0		Shen and Wania (2005)	L	144
(p,p'-DDD)	9.1×10^{-1}	5100	Cetin et al. (2006)	M	
[72-54-8]	1.5		Altschuh et al. (1999)	M	
			Mackay et al. (2006d)	V	221
	1.1×10^{-1}		Ballschmiter and Wittlinger (1991)	V	
	1.6		Suntio et al. (1988)	V	9
	4.6×10^{-1}		Yoshida et al. (1983)	V	
	2.9×10^{-2}	7300	Paasivirta et al. (1999)	T	
	8.1×10^{-4}		Ryan et al. (1988)	C	
	2.1		Hilal et al. (2008)	Q	
mitotane	1.2		HSDB (2015)	V	
$C_{14}H_{10}Cl_4$	1.6		Suntio et al. (1988)	V	9
(o,p'-DDD)	5.6×10^{2}		Suntio et al. (1988)	C	261
[53-19-0]	2.3×10^{-1}		Zhang et al. (2010)	Q	107, 108
	1.6		Zhang et al. (2010)	Q	107, 109
	1.1×10^{1}		Zhang et al. (2010)	Q	107, 110
	3.9×10^{-1}		Zhang et al. (2010)	Q	107, 111
1,1-dichloro-2,2-bis-(4-chlorophenyl)-ethene	2.4×10^{-1}		Shen and Wania (2005)	L	143
$C_{14}H_8Cl_4$	2.4×10^{-1}		Shen and Wania (2005)	L	144
(p,p'-DDE)	2.9×10^{-2}	4700	Jantunen and Bidleman (2006)	M	
[72-55-9]	1.6×10^{-1}	7700	Cetin et al. (2006)	M	
	2.4×10^{-1}		Altschuh et al. (1999)	M	
	8.1×10^{-3}		Atlas et al. (1982)	M	253
			Mackay et al. (2006d)	V	221
	2.9×10^{-2}		Ballschmiter and Wittlinger (1991)	V	
	1.6×10^{-1}		Calamari et al. (1991)	V	9
	7.6×10^{-1}		McLachlan et al. (1990)	V	147
	1.3×10^{-1}		Suntio et al. (1988)	V	9
	5.1×10^{-2}		Yoshida et al. (1983)	V	
	2.6×10^{-2}	7600	Paasivirta et al. (1999)	T	
	4.5×10^{-1}		Suntio et al. (1988)	C	255
	4.5×10^{-1}		Ryan et al. (1988)	C	
	1.8×10^{-1}		Hilal et al. (2008)	Q	
o,p'-DDE	3.9×10^{-1}		Mackay et al. (2006d)	V	
$C_{14}H_8Cl_4$	3.9×10^{-1}		Suntio et al. (1988)	V	9
[3424-82-6]	1.4×10^{-1}		Suntio et al. (1988)	C	9

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1,1,1-trichloro-2-(2-chlorophenyl)-2-(4-chlorophenyl)ethane	2.9		Mackay et al. (2006d)	V	
$C_{14}H_9Cl_5$ (o,p'-DDT) [789-02-6]	1.9×10^{-2}		Calamari et al. (1991)	V	9
1,1,1-trichloro-2,2-bis-(4-chlorophenyl)-ethane	9.1×10^{-1}		Shen and Wania (2005)	L	143
$C_{14}H_9Cl_5$	9.1×10^{-1}		Shen and Wania (2005)	L	144
(DDT; p,p'-DDT)	1.9×10^{-1}		Mackay and Shiu (1981)	L	
[50-29-3]	9.0×10^{-1}	7500	Cetin et al. (2006)	M	
	1.2		Altschuh et al. (1999)	M	
	7.7×10^{-1}		Fendinger et al. (1989)	M	126
	1.2		Fendinger et al. (1989)	M	245
			Mackay et al. (2006d)	V	221
	1.7×10^{-1}		Ballschmiter and Wittlinger (1991)	V	
	3.4×10^{-1}		Calamari et al. (1991)	V	9
	4.2×10^{-1}		Suntio et al. (1988)	V	9
	6.1×10^{-1}		Caron et al. (1985)	V	
	3.7×10^{-1}		Yoshida et al. (1983)	V	
	1.3×10^{-1}		Burkhard and Guth (1981)	V	
	2.5×10^{-1}		Mackay and Leinonen (1975)	V	
	1.9×10^{-2}	7800	Paasivirta et al. (1999)	T	
	1.7×10^{-1}		Suntio et al. (1988)	C	255
	2.0×10^{-1}		Ryan et al. (1988)	C	
	6.4×10^{-1}		Zhang et al. (2010)	Q	107, 108
	6.2×10^{-1}		Zhang et al. (2010)	Q	107, 109
	1.6×10^{1}		Zhang et al. (2010)	Q	107, 110
	2.0×10^{-1}		Zhang et al. (2010)	Q	107, 111
	6.7×10^{-1}		Hilal et al. (2008)	Q	
	2.8×10^{-1}		Brimblecombe (1986)	?	28
aldrin	6.7×10^{-2}		Shen and Wania (2005)	L	143
$C_{12}H_8Cl_6$	4.3×10^{-2}		Shen and Wania (2005)	L	144
[309-00-2]	3.6×10^{-1}		Mackay and Shiu (1981)	L	
	2.2×10^{-2}	3900	Cetin et al. (2006)	M	
	2.2×10^{-1}		Altschuh et al. (1999)	M	
	2.0×10^{-2}		Warner et al. (1980)	M	
	1.1×10^{-2}		Mackay et al. (2006d)	V	
	1.1×10^{-2}		Suntio et al. (1988)	V	9
	6.9×10^{-1}		Mackay and Leinonen (1975)	V	
	2.0×10^{-2}		Hilal et al. (2008)	C	
	2.0×10^{-2}		Meylan and Howard (1991)	C	
	7.0×10^{-1}		Suntio et al. (1988)	C	9
	6.1×10^{-1}		Suntio et al. (1988)	C	
	2.6×10^{-2}		Suntio et al. (1988)	C	255
	2.0×10^{-2}		Suntio et al. (1988)	C	9
	8.2×10^{-1}		Ryan et al. (1988)	C	
	2.0×10^{-2}		Shen (1982)	C	
	8.6×10^{-3}		Hilal et al. (2008)	Q	
	2.6×10^{-2}		Meylan and Howard (1991)	Q	
	8.4×10^{-1}		Brimblecombe (1986)	?	28

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
isodrin $C_{12}H_8Cl_6$ [465-73-6]	2.5×10^{-2}		HSDB (2015)	Q	38
1,1'-(2,2-dichloroethylidene)bis[4-ethylbenzene $C_{18}H_{20}Cl_2$ (perthane) [72-56-0]	5.8×10^{-2}		HSDB (2015)	Q	38
Polychlorinated biphenyls (PCBs)					
2-chlorobiphenyl	3.0×10^{-2}		Lau et al. (2006)	M	262
$C_{12}H_9Cl$	2.3×10^{-2}		Lau et al. (2006)	M	263
(PCB-1)	3.0×10^{-2}	5300	Charles and Destaillats (2005)	M	
[2051-60-7]	4.9×10^{-2}	5100	Bamford et al. (2000)	M	
	1.7×10^{-2}	5300	Paasivirta and Sinkkonen (2009)	V	
	1.4×10^{-2}		Mackay et al. (2006b)	V	
	1.4×10^{-2}		Mackay et al. (1992a)	V	
	2.7×10^{-3}		Hwang et al. (1992)	V	
	1.4×10^{-2}		Shiu and Mackay (1986)	V	
	3.5×10^{-2}		Burkhard et al. (1985)	V	
	2.3×10^{-2}		Hilal et al. (2008)	Q	
	1.7×10^{-2}		Fang Lee (2007)	Q	264
	2.2×10^{-2}		Fang Lee (2007)	Q	265
		4600	Kühne et al. (2005)	Q	
	3.3×10^{-2}		Dunnivant et al. (1992)	Q	
		5400	Kühne et al. (2005)	?	
3-chlorobiphenyl	3.2×10^{-2}	5400	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_9Cl$	1.3×10^{-2}		Mackay et al. (2006b)	V	
(PCB-2)	1.3×10^{-2}		Mackay et al. (1992a)	V	
[2051-61-8]	1.3×10^{-2}		Shiu and Mackay (1986)	V	
	6.9×10^{-2}		Burkhard et al. (1985)	V	
	3.7×10^{-2}		Hilal et al. (2008)	Q	
	3.7×10^{-2}		Fang Lee (2007)	Q	264
	3.1×10^{-2}		Fang Lee (2007)	Q	265
	3.5×10^{-2}		Dunnivant et al. (1992)	Q	
4-chlorobiphenyl	2.8×10^{-2}	5700	Li et al. (2003)	L	143
$C_{12}H_9Cl$	4.2×10^{-2}	6100	Li et al. (2003)	L	144
(PCB-3)	3.6×10^{-2}		Lau et al. (2006)	M	262
[2051-62-9]	2.9×10^{-2}		Lau et al. (2006)	M	263
	3.5×10^{-2}	6700	Charles and Destaillats (2005)	M	
	5.6×10^{-2}	6700	Bamford et al. (2002)	M	
	1.4×10^{-2}	5100	Paasivirta and Sinkkonen (2009)	V	
	2.3×10^{-2}		Mackay et al. (2006b)	V	
	2.3×10^{-2}		Mackay et al. (1992a)	V	
	2.3×10^{-2}		Shiu and Mackay (1986)	V	
	7.7×10^{-2}		Burkhard et al. (1985)	V	
	3.9×10^{-2}		Hilal et al. (2008)	Q	
	2.1×10^{-2}		Fang Lee (2007)	Q	264
	3.4×10^{-2}		Fang Lee (2007)	Q	265
	3.6×10^{-2}		Dunnivant et al. (1992)	Q	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,2'-dichlorobiphenyl	4.6×10^{-2}	6000	Bamford et al. (2002)	M	
$C_{12}H_8Cl_2$	4.0×10^{-2}		Fendinger and Glotfelty (1990)	M	
(PCB-4)	2.9×10^{-2}		Dunnivant et al. (1988)	M	
[13029-08-8]	2.9×10^{-2}		Dunnivant and Elzerman (1988)	M	266
	3.3×10^{-2}		Murphy et al. (1987)	M	9
	7.1×10^{-3}	5500	Paasivirta and Sinkkonen (2009)	V	
	1.7×10^{-2}		Mackay et al. (2006b)	V	
	1.7×10^{-2}		Mackay et al. (1992a)	V	
	1.7×10^{-2}		Shiu and Mackay (1986)	V	
	1.8×10^{-2}		Burkhard et al. (1985)	V	
	2.6×10^{-2}		Chiou et al. (1980)	V	
	4.5×10^{-2}		Murphy et al. (1983)	X	267, 268
	2.5×10^{-2}		Hilal et al. (2008)	Q	
	2.7×10^{-2}		Fang Lee (2007)	Q	264
	2.1×10^{-2}		Fang Lee (2007)	Q	265
	3.0×10^{-2}		Dunnivant et al. (1992)	Q	
2,3-dichlorobiphenyl	4.3×10^{-2}	5800	Bamford et al. (2002)	M	
$C_{12}H_8Cl_2$	2.1×10^{-2}	5500	Paasivirta and Sinkkonen (2009)	V	
(PCB-5)	5.1×10^{-2}		Burkhard et al. (1985)	V	
[16605-91-7]	4.7×10^{-2}		Hilal et al. (2008)	Q	
	3.8×10^{-2}		Fang Lee (2007)	Q	264
	4.1×10^{-2}		Fang Lee (2007)	Q	265
		5000	Kühne et al. (2005)	Q	
	4.1×10^{-2}		Dunnivant et al. (1992)	Q	
	3.5×10^{-2}		Sabljić and Güsten (1989)	Q	
		5800	Kühne et al. (2005)	?	
2,3'-dichlorobiphenyl	4.3×10^{-2}	5700	Bamford et al. (2002)	M	
$C_{12}H_8Cl_2$	3.9×10^{-2}		Brunner et al. (1990)	M	
(PCB-6)	3.2×10^{-2}		Murphy et al. (1987)	M	9
[25569-80-6]	3.9×10^{-2}	5900	Paasivirta and Sinkkonen (2009)	V	
	2.5×10^{-2}		Shiu and Mackay (1986)	V	
	3.6×10^{-2}		Burkhard et al. (1985)	V	
	5.6×10^{-2}		Hilal et al. (2008)	Q	
	3.4×10^{-2}		Fang Lee (2007)	Q	264
	3.3×10^{-2}		Fang Lee (2007)	Q	265
	3.0×10^{-2}		Dunnivant et al. (1992)	Q	
	2.5×10^{-2}		Sabljić and Güsten (1989)	Q	
2,4-dichlorobiphenyl	3.7×10^{-2}	5200	Bamford et al. (2002)	M	
$C_{12}H_8Cl_2$	2.8×10^{-2}		Dunnivant and Elzerman (1988)	M	
(PCB-7)	2.7×10^{-2}		Murphy et al. (1987)	M	9
[33284-50-3]	3.0×10^{-2}	5700	Paasivirta and Sinkkonen (2009)	V	
	2.2×10^{-2}		Mackay et al. (2006b)	V	
	2.2×10^{-2}		Mackay et al. (1992a)	V	
	2.2×10^{-2}		Shiu and Mackay (1986)	V	
	3.4×10^{-2}		Burkhard et al. (1985)	V	
	3.9×10^{-2}		Hilal et al. (2008)	Q	
	2.2×10^{-2}		Fang Lee (2007)	Q	264
	3.0×10^{-2}		Fang Lee (2007)	Q	265
		4700	Kühne et al. (2005)	Q	
	2.6×10^{-2}		Dunnivant et al. (1992)	Q	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
		5500	Kühne et al. (2005)	?	
2,4'-dichlorobiphenyl	3.8×10^{-2}	6000	Li et al. (2003)	L	143
$C_{12}H_8Cl_2$	4.4×10^{-2}	6300	Li et al. (2003)	L	144
(PCB-8)	2.6×10^{-2}		Lau et al. (2006)	M	262
[34883-43-7]	1.9×10^{-2}		Lau et al. (2006)	M	263
	2.3×10^{-2}	5300	Charles and Destaillats (2005)	M	
	4.0×10^{-2}	5300	Bamford et al. (2000)	M	
	3.5×10^{-2}		Murphy et al. (1987)	M	9
	1.0×10^{-2}		Atlas et al. (1982)	M	253
	2.2×10^{-2}	5600	Paasivirta and Sinkkonen (2009)	V	
	1.1×10^{-2}		Shiu and Mackay (1986)	V	
	4.0×10^{-2}		Burkhard et al. (1985)	V	
	5.7×10^{-2}		Hilal et al. (2008)	Q	
	1.7×10^{-2}		Fang Lee (2007)	Q	264
	3.4×10^{-2}		Fang Lee (2007)	Q	265
		4700	Kühne et al. (2005)	Q	
	3.3×10^{-2}		Dunnivant et al. (1992)	Q	
	3.2×10^{-2}		Sabljić and Güsten (1989)	Q	
		5600	Kühne et al. (2005)	?	
2,5-dichlorobiphenyl	2.3×10^{-2}	5700	ten Hulscher et al. (1992)	M	
$C_{12}H_8Cl_2$	2.5×10^{-2}		Dunnivant et al. (1988)	M	
(PCB-9)	2.5×10^{-2}		Dunnivant and Elzerman (1988)	M	266
[34883-39-1]	2.0×10^{-2}	5600	Paasivirta and Sinkkonen (2009)	V	
	5.0×10^{-2}		Mackay et al. (2006b)	V	
	5.0×10^{-2}		Mackay et al. (1992a)	V	
	5.0×10^{-2}		Shiu and Mackay (1986)	V	
	3.0×10^{-2}		Burkhard et al. (1985)	V	
	4.1×10^{-2}		Hilal et al. (2008)	Q	
	3.1×10^{-2}		Fang Lee (2007)	Q	264
	2.6×10^{-2}		Fang Lee (2007)	Q	265
		4700	Kühne et al. (2005)	Q	
	3.0×10^{-2}		Dunnivant et al. (1992)	Q	
		5800	Kühne et al. (2005)	?	
2,6-dichlorobiphenyl	1.2×10^{-2}	5700	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_8Cl_2$	2.1×10^{-2}		Burkhard et al. (1985)	V	
(PCB-10)	3.0×10^{-2}		Hilal et al. (2008)	Q	
[33146-45-1]	1.9×10^{-2}		Fang Lee (2007)	Q	264
	2.3×10^{-2}		Fang Lee (2007)	Q	265
	2.3×10^{-2}		Dunnivant et al. (1992)	Q	
	2.1×10^{-2}		Sabljić and Güsten (1989)	Q	
3,3'-dichlorobiphenyl	4.2×10^{-2}		Dunnivant et al. (1988)	M	
$C_{12}H_8Cl_2$	4.2×10^{-2}		Dunnivant and Elzerman (1988)	M	266
(PCB-11)	3.4×10^{-2}	5700	Paasivirta and Sinkkonen (2009)	V	
[2050-67-1]	5.9×10^{-2}		Mackay et al. (2006b)	V	
	5.8×10^{-2}		Mackay et al. (1992a)	V	
	7.4×10^{-2}		Burkhard et al. (1985)	V	
	9.0×10^{-2}		Hilal et al. (2008)	Q	
	7.4×10^{-2}		Fang Lee (2007)	Q	264
	4.3×10^{-2}		Fang Lee (2007)	Q	265
	3.4×10^{-2}		Dunnivant et al. (1992)	Q	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	4.3×10^{-2}		Meylan and Howard (1991)	Q	
3,4-dichlorobiphenyl	7.0×10^{-2}		Brunner et al. (1990)	M	
$C_{12}H_8Cl_2$	4.8×10^{-2}		Dunnivant et al. (1988)	M	
(PCB-12)	4.8×10^{-2}		Dunnivant and Elzerman (1988)	M	266
[2974-92-7]	2.0×10^{-2}	5300	Paasivirta and Sinkkonen (2009)	V	
	1.0×10^{-1}		Burkhard et al. (1985)	V	
	7.7×10^{-2}		Hilal et al. (2008)	Q	
	4.8×10^{-2}		Fang Lee (2007)	Q	264
	4.3×10^{-2}		Fang Lee (2007)	Q	265
	4.2×10^{-2}		Dunnivant et al. (1992)	Q	
3,4'-dichlorobiphenyl	4.9×10^{-2}	6100	Bamford et al. (2002)	M	
$C_{12}H_8Cl_2$	8.5×10^{-2}	5900	Paasivirta and Sinkkonen (2009)	V	
(PCB-13)	8.1×10^{-2}		Burkhard et al. (1985)	V	
[2974-90-5]	9.5×10^{-2}		Hilal et al. (2008)	Q	
	3.7×10^{-2}		Fang Lee (2007)	Q	264
	4.4×10^{-2}		Fang Lee (2007)	Q	265
	3.9×10^{-2}		Dunnivant et al. (1992)	Q	
	3.1×10^{-2}		Sabljić and Güsten (1989)	Q	
3,5-dichlorobiphenyl	2.7×10^{-2}	5500	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_8Cl_2$	6.0×10^{-2}		Burkhard et al. (1985)	V	
(PCB-14)	5.0×10^{-2}		Hilal et al. (2008)	Q	
[34883-41-5]	6.7×10^{-2}		Fang Lee (2007)	Q	264
	3.2×10^{-2}		Fang Lee (2007)	Q	265
	2.3×10^{-2}		Dunnivant et al. (1992)	Q	
	2.0×10^{-2}		Sabljić and Güsten (1989)	Q	
4,4'-dichlorobiphenyl	7.0×10^{-2}	6000	Li et al. (2003)	L	143
$C_{12}H_8Cl_2$	7.5×10^{-2}	6700	Li et al. (2003)	L	144
(PCB-15)	5.0×10^{-2}		Lau et al. (2006)	M	262
[2050-68-2]	3.3×10^{-2}		Lau et al. (2006)	M	263
	3.5×10^{-2}	5300	Charles and Destaillats (2005)	M	
	1.0×10^{-1}		Fendinger and Glotfelty (1990)	M	
	5.0×10^{-2}		Dunnivant et al. (1988)	M	
	5.0×10^{-2}		Dunnivant and Elzerman (1988)	M	266
	3.3×10^{-3}	4900	Paasivirta and Sinkkonen (2009)	V	
	5.6×10^{-2}		Mackay et al. (2006b)	V	
	5.9×10^{-2}		Mackay et al. (1992a)	V	
	5.9×10^{-2}		Shiu and Mackay (1986)	V	
	9.1×10^{-2}		Burkhard et al. (1985)	V	
	1.0×10^{-1}		Chiou et al. (1980)	V	
	3.3×10^{-2}		Murphy et al. (1983)	X	267, 268
	6.8×10^{-2}		Dunnivant et al. (1988)	C	
	9.7×10^{-2}		Hilal et al. (2008)	Q	
	2.1×10^{-2}		Fang Lee (2007)	Q	264
	4.8×10^{-2}		Fang Lee (2007)	Q	265
	4.4×10^{-2}		Dunnivant et al. (1992)	Q	
	4.3×10^{-2}		Meylan and Howard (1991)	Q	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,2',3-trichlorobiphenyl	4.2×10^{-2}	5700	Bamford et al. (2002)	M	
$C_{12}H_7Cl_3$	4.1×10^{-2}		Murphy et al. (1987)	M	9
(PCB-16)	1.2×10^{-2}		Atlas et al. (1982)	M	253
[38444-78-9]	1.5×10^{-2}	5800	Paasivirta and Sinkkonen (2009)	V	
	1.3×10^{-2}		Shiu and Mackay (1986)	V	
	2.8×10^{-2}		Burkhard et al. (1985)	V	
	5.6×10^{-2}		Hilal et al. (2008)	Q	
	6.1×10^{-2}		Fang Lee (2007)	Q	264
	4.4×10^{-2}		Fang Lee (2007)	Q	265
		4500	Kühne et al. (2005)	Q	
	3.9×10^{-2}		Dunnivant et al. (1992)	Q	
	3.6×10^{-2}		Sabljić and Güsten (1989)	Q	
		4700	Kühne et al. (2005)	?	
2,2',4-trichlorobiphenyl	3.3×10^{-2}	4700	Bamford et al. (2002)	M	
$C_{12}H_7Cl_3$	3.0×10^{-2}		Murphy et al. (1987)	M	9
(PCB-17)	4.0×10^{-2}	6200	Paasivirta and Sinkkonen (2009)	V	
[37680-66-3]	1.9×10^{-2}		Burkhard et al. (1985)	V	
	3.7×10^{-2}		Hilal et al. (2008)	Q	
	3.5×10^{-2}		Fang Lee (2007)	Q	264
	3.2×10^{-2}		Fang Lee (2007)	Q	265
	2.6×10^{-2}		Dunnivant et al. (1992)	Q	
	2.5×10^{-2}		Sabljić and Güsten (1989)	Q	
2,2',5-trichlorobiphenyl	3.9×10^{-2}	4200	Bamford et al. (2000)	M	
$C_{12}H_7Cl_3$	3.9×10^{-2}		Brunner et al. (1990)	M	
(PCB-18)	2.6×10^{-2}		Dunnivant and Elzerman (1988)	M	
[37680-65-2]	3.3×10^{-2}		Murphy et al. (1987)	M	9
	4.9×10^{-2}		Oliver (1985)	M	
	9.9×10^{-3}		Atlas et al. (1982)	M	253
	9.8×10^{-3}	5800	Paasivirta and Sinkkonen (2009)	V	
	1.1×10^{-2}		Mackay et al. (2006b)	V	
	1.1×10^{-2}		Mackay et al. (1992a)	V	
	1.1×10^{-2}		Shiu and Mackay (1986)	V	
	1.7×10^{-2}		Burkhard et al. (1985)	V	
	4.6×10^{-2}		Hilal et al. (2008)	Q	
	4.9×10^{-2}		Fang Lee (2007)	Q	264
	3.0×10^{-2}		Fang Lee (2007)	Q	265
		4200	Kühne et al. (2005)	Q	
	3.1×10^{-2}		Dunnivant et al. (1992)	Q	
		4500	Kühne et al. (2005)	?	
2,2',6-trichlorobiphenyl	3.3×10^{-2}	4700	Bamford et al. (2002)	M	
$C_{12}H_7Cl_3$	4.3×10^{-2}		Brunner et al. (1990)	M	
(PCB-19)	3.3×10^{-2}		Murphy et al. (1987)	M	9
[38444-73-4]	2.5×10^{-3}	5400	Paasivirta and Sinkkonen (2009)	V	
	8.0×10^{-3}		Burkhard et al. (1985)	V	
	5.4×10^{-2}		Hilal et al. (2008)	Q	
	3.0×10^{-2}		Fang Lee (2007)	Q	264
	2.4×10^{-2}		Fang Lee (2007)	Q	265
		3600	Kühne et al. (2005)	Q	
	2.2×10^{-2}		Dunnivant et al. (1992)	Q	
	2.2×10^{-2}		Sabljić and Güsten (1989)	Q	
		3100	Kühne et al. (2005)	?	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,3,3'-trichlorobiphenyl	1.2×10^{-2}		Atlas et al. (1982)	M	253
$C_{12}H_7Cl_3$	2.0×10^{-2}	5800	Paasivirta and Sinkkonen (2009)	V	
(PCB-20)	1.2×10^{-2}		Shiu and Mackay (1986)	V	
[38444-84-7]	5.8×10^{-2}		Burkhard et al. (1985)	V	
	1.2×10^{-1}		Hilal et al. (2008)	Q	
	7.6×10^{-2}		Fang Lee (2007)	Q	264
	6.5×10^{-2}		Fang Lee (2007)	Q	265
	4.5×10^{-2}		Dunnivant et al. (1992)	Q	
	3.3×10^{-2}		Sabljić and Güsten (1989)	Q	
2,3,4-trichlorobiphenyl	4.3×10^{-3}	5200	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_7Cl_3$	6.8×10^{-2}		Burkhard et al. (1985)	V	
(PCB-21)	7.9×10^{-2}		Hilal et al. (2008)	Q	
[55702-46-0]	5.0×10^{-2}		Fang Lee (2007)	Q	264
	5.9×10^{-2}		Fang Lee (2007)	Q	265
	4.3×10^{-2}		Dunnivant et al. (1992)	Q	
	4.7×10^{-2}		Sabljić and Güsten (1989)	Q	
2,3,4'-trichlorobiphenyl	3.4×10^{-2}	4800	Bamford et al. (2002)	M	
$C_{12}H_7Cl_3$	5.0×10^{-2}		Murphy et al. (1987)	M	9
(PCB-22)	1.3×10^{-2}	5600	Paasivirta and Sinkkonen (2009)	V	
[38444-85-8]	6.5×10^{-2}		Burkhard et al. (1985)	V	
	1.2×10^{-1}		Hilal et al. (2008)	Q	
	3.8×10^{-2}		Fang Lee (2007)	Q	264
	6.4×10^{-2}		Fang Lee (2007)	Q	265
	5.2×10^{-2}		Dunnivant et al. (1992)	Q	
	4.4×10^{-2}		Sabljić and Güsten (1989)	Q	
2,3,5-trichlorobiphenyl	1.5×10^{-2}	5700	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_7Cl_3$	3.9×10^{-2}		Burkhard et al. (1985)	V	
(PCB-23)	6.9×10^{-2}		Fang Lee (2007)	Q	264
[55720-44-0]	4.7×10^{-2}		Fang Lee (2007)	Q	265
	3.1×10^{-2}		Dunnivant et al. (1992)	Q	
	2.8×10^{-2}		Sabljić and Güsten (1989)	Q	
2,3,6-trichlorobiphenyl	3.3×10^{-2}	4700	Bamford et al. (2002)	M	
$C_{12}H_7Cl_3$	4.5×10^{-2}		Brunner et al. (1990)	M	
(PCB-24)	3.1×10^{-2}		Murphy et al. (1987)	M	9
[55702-45-9]	7.7×10^{-3}	5600	Paasivirta and Sinkkonen (2009)	V	
	2.3×10^{-2}		Burkhard et al. (1985)	V	
	4.7×10^{-2}		Hilal et al. (2008)	Q	
	4.2×10^{-2}		Fang Lee (2007)	Q	264
	4.4×10^{-2}		Fang Lee (2007)	Q	265
		4500	Kühne et al. (2005)	Q	
	3.2×10^{-2}		Dunnivant et al. (1992)	Q	
	2.9×10^{-2}		Sabljić and Güsten (1989)	Q	
		2800	Kühne et al. (2005)	?	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,3',4-trichlorobiphenyl	3.3×10^{-2}	4700	Bamford et al. (2002)	M	
$C_{12}H_7Cl_3$	2.4×10^{-2}		Murphy et al. (1987)	M	9
(PCB-25)	2.8×10^{-2}	5900	Paasivirta and Sinkkonen (2009)	V	
[55712-37-3]	3.9×10^{-2}		Burkhard et al. (1985)	V	
	4.4×10^{-2}		Fang Lee (2007)	Q	264
	4.5×10^{-2}		Fang Lee (2007)	Q	265
		4800	Kühne et al. (2005)	Q	
	3.1×10^{-2}		Dunnivant et al. (1992)	Q	
	2.3×10^{-2}		Sabljić and Güsten (1989)	Q	
		5700	Kühne et al. (2005)	?	
2,3',5-trichlorobiphenyl	3.5×10^{-2}	4900	Bamford et al. (2002)	M	
$C_{12}H_7Cl_3$	3.0×10^{-2}		Dunnivant et al. (1988)	M	
(PCB-26)	3.0×10^{-2}		Dunnivant and Elzerman (1988)	M	266
[38444-81-4]	2.9×10^{-2}		Murphy et al. (1987)	M	9
	2.2×10^{-2}	5900	Paasivirta and Sinkkonen (2009)	V	
	3.5×10^{-2}		Burkhard et al. (1985)	V	
	9.9×10^{-2}		Hilal et al. (2008)	Q	
	6.1×10^{-2}		Fang Lee (2007)	Q	264
	4.3×10^{-2}		Fang Lee (2007)	Q	265
	3.3×10^{-2}		Dunnivant et al. (1992)	Q	
	5.9×10^{-2}		Meylan and Howard (1991)	Q	
2,3',6-trichlorobiphenyl	3.5×10^{-2}		Murphy et al. (1987)	M	9
$C_{12}H_7Cl_3$	3.1×10^{-2}	6100	Paasivirta and Sinkkonen (2009)	V	
(PCB-27)	2.4×10^{-2}		Burkhard et al. (1985)	V	
[38444-76-7]	3.7×10^{-2}		Fang Lee (2007)	Q	264
	4.2×10^{-2}		Fang Lee (2007)	Q	265
	2.4×10^{-2}		Dunnivant et al. (1992)	Q	
	2.0×10^{-2}		Sabljić and Güsten (1989)	Q	
2,4,4'-trichlorobiphenyl	3.0×10^{-2}	6300	Li et al. (2003)	L	143
$C_{12}H_7Cl_3$	3.3×10^{-2}	6600	Li et al. (2003)	L	144
(PCB-28)	2.3×10^{-2}		Lau et al. (2006)	M	262
[7012-37-5]	1.4×10^{-2}		Lau et al. (2006)	M	263
	1.8×10^{-2}	2300	Charles and Destaillats (2005)	M	
	2.6×10^{-2}	3900	Bamford et al. (2000)	M	
	3.6×10^{-2}	6100	ten Hulscher et al. (1992)	M	
	4.9×10^{-2}		Brunner et al. (1990)	M	
	3.1×10^{-2}		Dunnivant and Elzerman (1988)	M	
	3.7×10^{-2}		Murphy et al. (1987)	M	9
	2.7×10^{-2}	5900	Paasivirta and Sinkkonen (2009)	V	
	4.4×10^{-2}		Burkhard et al. (1985)	V	
	2.7×10^{-2}	7100	Paasivirta et al. (1999)	T	
	1.0×10^{-1}		Hilal et al. (2008)	Q	
	2.2×10^{-2}		Fang Lee (2007)	Q	264
	4.7×10^{-2}		Fang Lee (2007)	Q	265
		4800	Kühne et al. (2005)	Q	
	3.5×10^{-2}		Dunnivant et al. (1992)	Q	
		4800	Kühne et al. (2005)	?	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,4,5-trichlorobiphenyl	3.1×10^{-2}	6300	Li et al. (2003)	L	143
$C_{12}H_7Cl_3$	3.3×10^{-2}	6700	Li et al. (2003)	L	144
(PCB-29)	2.6×10^{-2}	4200	Bamford et al. (2000)	M	
[15862-07-4]	4.9×10^{-2}		Brunner et al. (1990)	M	
	7.7×10^{-3}	5500	Paasivirta and Sinkkonen (2009)	V	
	4.1×10^{-3}		Mackay et al. (2006b)	V	
	4.1×10^{-2}		Mackay et al. (1992a)	V	
	4.2×10^{-2}		Shiu and Mackay (1986)	V	
	3.9×10^{-2}		Burkhard et al. (1985)	V	
	7.9×10^{-2}		Hilal et al. (2008)	Q	
	4.0×10^{-2}		Fang Lee (2007)	Q	264
	4.2×10^{-2}		Fang Lee (2007)	Q	265
		5100	Kühne et al. (2005)	Q	
	3.3×10^{-2}		Dunnivant et al. (1992)	Q	
	3.7×10^{-2}		Sabljić and Güsten (1989)	Q	
		4500	Kühne et al. (2005)	?	
2,4,6-trichlorobiphenyl	1.5×10^{-2}		Dunnivant et al. (1988)	M	
$C_{12}H_7Cl_3$	1.5×10^{-2}		Dunnivant and Elzerman (1988)	M	266
(PCB-30)	8.5×10^{-3}	5600	Paasivirta and Sinkkonen (2009)	V	
[35693-92-6]	2.0×10^{-2}		Mackay et al. (2006b)	V	
	2.0×10^{-2}		Mackay et al. (1992a)	V	
	2.0×10^{-2}		Shiu and Mackay (1986)	V	
	1.6×10^{-2}		Burkhard et al. (1985)	V	
	2.9×10^{-2}		Hilal et al. (2008)	Q	
	2.4×10^{-2}		Fang Lee (2007)	Q	264
	2.5×10^{-2}		Fang Lee (2007)	Q	265
	1.7×10^{-2}		Dunnivant et al. (1992)	Q	
2,4',5-trichlorobiphenyl	2.7×10^{-2}	6100	Li et al. (2003)	L	143
$C_{12}H_7Cl_3$	2.9×10^{-2}	6600	Li et al. (2003)	L	144
(PCB-31)	3.4×10^{-2}	4900	Bamford et al. (2002)	M	
[16606-02-3]	5.2×10^{-2}		Brunner et al. (1990)	M	
	3.7×10^{-2}		Murphy et al. (1987)	M	9
	1.1×10^{-2}		Atlas et al. (1982)	M	253
	1.3×10^{-2}	5700	Paasivirta and Sinkkonen (2009)	V	
	1.8×10^{-2}		Shiu and Mackay (1986)	V	
	3.9×10^{-2}		Burkhard et al. (1985)	V	
	1.0×10^{-1}		Hilal et al. (2008)	Q	
	3.0×10^{-2}		Fang Lee (2007)	Q	264
	4.1×10^{-2}		Fang Lee (2007)	Q	265
	3.6×10^{-2}		Dunnivant et al. (1992)	Q	
	3.5×10^{-2}		Sabljić and Güsten (1989)	Q	
2,4',6-trichlorobiphenyl	1.2×10^{-2}	5700	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_7Cl_3$	2.7×10^{-2}		Burkhard et al. (1985)	V	
(PCB-32)	7.5×10^{-2}		Hilal et al. (2008)	Q	
[38444-77-8]	1.8×10^{-2}		Fang Lee (2007)	Q	264
	4.1×10^{-2}		Fang Lee (2007)	Q	265
	2.5×10^{-2}		Dunnivant et al. (1992)	Q	
	2.4×10^{-2}		Sabljić and Güsten (1989)	Q	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,3',4'-trichlorobiphenyl	3.6×10^{-2}	5100	Bamford et al. (2002)	M	
$C_{12}H_7Cl_3$	4.4×10^{-2}		Murphy et al. (1987)	M	9
(PCB-33)	2.5×10^{-2}		Westcott et al. (1981)	M	
[38444-86-9]	1.3×10^{-2}	5600	Paasivirta and Sinkkonen (2009)	V	
			Mackay et al. (2006b)	V	256
	2.3×10^{-2}		Mackay et al. (1992a)	V	
	2.3×10^{-2}		Shiu and Mackay (1986)	V	
	5.9×10^{-2}		Burkhard et al. (1985)	V	
	1.1×10^{-1}		Hilal et al. (2008)	Q	
	7.7×10^{-2}		Fang Lee (2007)	Q	264
	5.0×10^{-2}		Fang Lee (2007)	Q	265
	4.1×10^{-2}		Dunnivant et al. (1992)	Q	
	4.5×10^{-2}		Sabljić and Güsten (1989)	Q	
2,3',5'-trichlorobiphenyl	1.3×10^{-2}	5800	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_7Cl_3$	3.4×10^{-2}		Burkhard et al. (1985)	V	
(PCB-34)	7.3×10^{-2}		Hilal et al. (2008)	Q	
[37680-68-5]	1.1×10^{-1}		Fang Lee (2007)	Q	264
	3.9×10^{-2}		Fang Lee (2007)	Q	265
	2.3×10^{-2}		Dunnivant et al. (1992)	Q	
	2.0×10^{-2}		Sabljić and Güsten (1989)	Q	
3,3',4-trichlorobiphenyl	1.8×10^{-2}	5600	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_7Cl_3$	1.2×10^{-1}		Burkhard et al. (1985)	V	
(PCB-35)	9.5×10^{-2}		Fang Lee (2007)	Q	264
[37680-69-6]	5.9×10^{-2}		Fang Lee (2007)	Q	265
	5.5×10^{-2}		Dunnivant et al. (1992)	Q	
	4.4×10^{-2}		Sabljić and Güsten (1989)	Q	
3,3',5-trichlorobiphenyl	5.8×10^{-2}		Brunner et al. (1990)	M	
$C_{12}H_7Cl_3$	1.3×10^{-2}	5600	Paasivirta and Sinkkonen (2009)	V	
(PCB-36)	7.2×10^{-2}		Burkhard et al. (1985)	V	
[38444-87-0]	1.2×10^{-1}		Hilal et al. (2008)	Q	
	1.3×10^{-1}		Fang Lee (2007)	Q	264
	4.7×10^{-2}		Fang Lee (2007)	Q	265
	2.9×10^{-2}		Dunnivant et al. (1992)	Q	
	1.9×10^{-2}		Sabljić and Güsten (1989)	Q	
3,4,4'-trichlorobiphenyl	9.9×10^{-2}		Brunner et al. (1990)	M	
$C_{12}H_7Cl_3$	6.5×10^{-2}		Murphy et al. (1987)	M	9
(PCB-37)	1.2×10^{-2}		Atlas et al. (1982)	M	253
[38444-90-5]	1.3×10^{-2}	5400	Paasivirta and Sinkkonen (2009)	V	
	1.2×10^{-2}		Shiu and Mackay (1986)	V	
	1.4×10^{-1}		Burkhard et al. (1985)	V	
	1.8×10^{-1}		Hilal et al. (2008)	Q	
	4.8×10^{-2}		Fang Lee (2007)	Q	264
	6.1×10^{-2}		Fang Lee (2007)	Q	265
	6.5×10^{-2}		Dunnivant et al. (1992)	Q	
	6.9×10^{-2}		Sabljić and Güsten (1989)	Q	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
3,4,5-trichlorobiphenyl	1.2×10^{-2}	5400	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_7Cl_3$	1.3×10^{-1}		Burkhard et al. (1985)	V	
(PCB-38)	8.8×10^{-2}		Fang Lee (2007)	Q	264
[53555-66-1]	5.2×10^{-2}		Fang Lee (2007)	Q	265
	4.2×10^{-2}		Dunnivant et al. (1992)	Q	
	4.8×10^{-2}		Sabljić and Güsten (1989)	Q	
3,4',5-trichlorobiphenyl	1.2×10^{-2}	5600	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_7Cl_3$	8.0×10^{-2}		Burkhard et al. (1985)	V	
(PCB-39)	6.6×10^{-2}		Fang Lee (2007)	Q	264
[38444-88-1]	4.4×10^{-2}		Fang Lee (2007)	Q	265
	3.3×10^{-2}		Dunnivant et al. (1992)	Q	
	2.3×10^{-2}		Sabljić and Güsten (1989)	Q	
2,2',3,3'-tetrachlorobiphenyl	3.6×10^{-2}	3600	Bamford et al. (2002)	M	
$C_{12}H_6Cl_4$	9.9×10^{-2}		Brunner et al. (1990)	M	
(PCB-40)	4.9×10^{-2}		Dunnivant et al. (1988)	M	
[38444-93-8]	4.9×10^{-2}		Dunnivant and Elzerman (1988)	M	266
	6.1×10^{-2}		Murphy et al. (1987)	M	9
	8.2×10^{-2}		Oliver (1985)	M	
	1.8×10^{-3}	5300	Paasivirta and Sinkkonen (2009)	V	
	4.6×10^{-2}		Mackay et al. (2006b)	V	
	4.6×10^{-2}		Mackay et al. (1992a)	V	
	4.5×10^{-2}		Shiu and Mackay (1986)	V	
	4.9×10^{-2}		Burkhard et al. (1985)	V	
	1.1×10^{-1}		Hilal et al. (2008)	Q	
	1.2×10^{-1}		Fang Lee (2007)	Q	264
	9.7×10^{-2}		Fang Lee (2007)	Q	265
	5.4×10^{-2}		Dunnivant et al. (1992)	Q	
2,2',3,4-tetrachlorobiphenyl	4.9×10^{-2}		Murphy et al. (1987)	M	9
$C_{12}H_6Cl_4$	1.6×10^{-2}	6200	Paasivirta and Sinkkonen (2009)	V	
(PCB-41)	4.2×10^{-2}		Burkhard et al. (1985)	V	
[52663-59-9]	6.9×10^{-2}		Hilal et al. (2008)	Q	
	7.9×10^{-2}		Fang Lee (2007)	Q	264
	7.1×10^{-2}		Fang Lee (2007)	Q	265
	4.0×10^{-2}		Dunnivant et al. (1992)	Q	
	4.8×10^{-2}		Sabljić and Güsten (1989)	Q	
2,2',3,4'-tetrachlorobiphenyl	2.8×10^{-2}	3100	Bamford et al. (2002)	M	
$C_{12}H_6Cl_4$	5.0×10^{-2}		Murphy et al. (1987)	M	9
(PCB-42)	8.6×10^{-3}	5900	Paasivirta and Sinkkonen (2009)	V	
[36559-22-5]	3.4×10^{-2}		Burkhard et al. (1985)	V	
	7.2×10^{-2}		Hilal et al. (2008)	Q	
	6.0×10^{-2}		Fang Lee (2007)	Q	264
	6.7×10^{-2}		Fang Lee (2007)	Q	265
	3.9×10^{-2}		Dunnivant et al. (1992)	Q	
	3.1×10^{-2}		Sabljić and Güsten (1989)	Q	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,2',3,5-tetrachlorobiphenyl	1.3×10^{-2}	6300	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_6Cl_4$	2.4×10^{-2}		Burkhard et al. (1985)	V	
(PCB-43)	1.1×10^{-1}		Fang Lee (2007)	Q	264
[70362-46-8]	6.1×10^{-2}		Fang Lee (2007)	Q	265
	2.9×10^{-2}		Dunnivant et al. (1992)	Q	
	2.8×10^{-2}		Sabljić and Güsten (1989)	Q	
2,2',3,5'-tetrachlorobiphenyl	3.6×10^{-2}	3100	Bamford et al. (2000)	M	
$C_{12}H_6Cl_4$	5.2×10^{-2}		Murphy et al. (1987)	M	9
(PCB-44)	1.3×10^{-2}		Atlas et al. (1982)	M	253
[41464-39-5]	1.1×10^{-2}	6000	Paasivirta and Sinkkonen (2009)	V	
	2.0×10^{-2}		Shiu and Mackay (1986)	V	
	3.0×10^{-2}		Burkhard et al. (1985)	V	
	9.7×10^{-2}		Hilal et al. (2008)	Q	
	1.2×10^{-1}		Fang Lee (2007)	Q	264
	6.7×10^{-2}		Fang Lee (2007)	Q	265
		4600	Kühne et al. (2005)	Q	
	4.3×10^{-2}		Dunnivant et al. (1992)	Q	
	3.9×10^{-2}		Sabljić and Güsten (1989)	Q	
		3400	Kühne et al. (2005)	?	
2,2',3,6-tetrachlorobiphenyl	2.5×10^{-2}	2900	Bamford et al. (2002)	M	
$C_{12}H_6Cl_4$	3.8×10^{-3}	6000	Paasivirta and Sinkkonen (2009)	V	
(PCB-45)	9.9×10^{-3}		Burkhard et al. (1985)	V	
[70362-45-7]	6.7×10^{-2}		Fang Lee (2007)	Q	264
	5.1×10^{-2}		Fang Lee (2007)	Q	265
	2.8×10^{-2}		Dunnivant et al. (1992)	Q	
	3.1×10^{-2}		Sabljić and Güsten (1989)	Q	
2,2',3,6'-tetrachlorobiphenyl	3.0×10^{-2}	3400	Bamford et al. (2002)	M	
$C_{12}H_6Cl_4$	3.8×10^{-2}		Murphy et al. (1987)	M	9
(PCB-46)	9.1×10^{-4}	5300	Paasivirta and Sinkkonen (2009)	V	
[41464-47-5]	1.4×10^{-2}		Burkhard et al. (1985)	V	
	6.7×10^{-2}		Fang Lee (2007)	Q	264
	5.7×10^{-2}		Fang Lee (2007)	Q	265
	2.9×10^{-2}		Dunnivant et al. (1992)	Q	
	2.7×10^{-2}		Sabljić and Güsten (1989)	Q	
2,2',4,4'-tetrachlorobiphenyl	2.1×10^{-1}		Lau et al. (2006)	M	262
$C_{12}H_6Cl_4$	9.1×10^{-3}		Lau et al. (2006)	M	263
(PCB-47)	1.8×10^{-1}	-6000	Charles and Destaillats (2005)	M	
[2437-79-8]	5.2×10^{-2}		Brunner et al. (1990)	M	
	2.0×10^{-2}	6200	Paasivirta and Sinkkonen (2009)	V	
	5.7×10^{-2}		Mackay et al. (2006b)	V	
	5.8×10^{-2}		Mackay et al. (1992a)	V	
	2.0×10^{-3}		Hwang et al. (1992)	V	
	5.9×10^{-2}		Shiu and Mackay (1986)	V	
	2.3×10^{-2}		Burkhard et al. (1985)	V	
	5.0×10^{-2}		Hilal et al. (2008)	Q	
	3.5×10^{-2}		Fang Lee (2007)	Q	264
	4.8×10^{-2}		Fang Lee (2007)	Q	265
	2.7×10^{-2}		Dunnivant et al. (1992)	Q	
	2.2×10^{-2}		Sabljić and Güsten (1989)	Q	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,2',4,5-tetrachlorobiphenyl	2.7×10^{-2}	3000	Bamford et al. (2002)	M	
$C_{12}H_6Cl_4$	3.9×10^{-2}		Murphy et al. (1987)	M	9
(PCB-48)	6.1×10^{-3}	6100	Paasivirta and Sinkkonen (2009)	V	
[70362-47-9]	2.5×10^{-2}		Burkhard et al. (1985)	V	
	6.3×10^{-2}		Fang Lee (2007)	Q	264
	5.3×10^{-2}		Fang Lee (2007)	Q	265
	3.3×10^{-2}		Dunnivant et al. (1992)	Q	
	3.8×10^{-2}		Sabljić and Güsten (1989)	Q	
2,2',4,5'-tetrachlorobiphenyl	2.7×10^{-2}	3000	Bamford et al. (2002)	M	
$C_{12}H_6Cl_4$	3.6×10^{-2}		Murphy et al. (1987)	M	9
(PCB-49)	8.3×10^{-3}	5900	Paasivirta and Sinkkonen (2009)	V	
[41464-40-8]	5.0×10^{-2}		Shiu and Mackay (1986)	V	
	2.1×10^{-2}		Burkhard et al. (1985)	V	
	6.1×10^{-2}		Hilal et al. (2008)	Q	
	7.0×10^{-2}		Fang Lee (2007)	Q	264
	4.5×10^{-2}		Fang Lee (2007)	Q	265
	2.8×10^{-2}		Dunnivant et al. (1992)	Q	
	2.6×10^{-2}		Sabljić and Güsten (1989)	Q	
2,2',4,6-tetrachlorobiphenyl	1.6×10^{-2}	2900	Bamford et al. (2000)	M	
$C_{12}H_6Cl_4$	1.3×10^{-2}		Atlas et al. (1982)	M	253
(PCB-50)	9.9×10^{-3}	6300	Paasivirta and Sinkkonen (2009)	V	
[62796-65-0]	1.3×10^{-2}		Shiu and Mackay (1986)	V	
	7.3×10^{-3}		Burkhard et al. (1985)	V	
	3.9×10^{-2}		Fang Lee (2007)	Q	264
	2.8×10^{-2}		Fang Lee (2007)	Q	265
		3600	Kühne et al. (2005)	Q	
	1.6×10^{-2}		Dunnivant et al. (1992)	Q	
	1.7×10^{-2}		Sabljić and Güsten (1989)	Q	
		3100	Kühne et al. (2005)	?	
2,2',4,6'-tetrachlorobiphenyl	2.5×10^{-2}	6300	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_6Cl_4$	9.9×10^{-3}		Burkhard et al. (1985)	V	
(PCB-51)	7.3×10^{-2}		Hilal et al. (2008)	Q	
[68194-04-7]	3.8×10^{-2}		Fang Lee (2007)	Q	264
	4.0×10^{-2}		Fang Lee (2007)	Q	265
	1.9×10^{-2}		Dunnivant et al. (1992)	Q	
	2.0×10^{-2}		Sabljić and Güsten (1989)	Q	
2,2',5,5'-tetrachlorobiphenyl	3.5×10^{-2}	6600	Li et al. (2003)	L	143
$C_{12}H_6Cl_4$	4.0×10^{-2}	6800	Li et al. (2003)	L	144
(PCB-52)	3.2×10^{-2}	3700	Bamford et al. (2000)	M	
[35693-99-3]	4.2×10^{-2}	6200	ten Hulscher et al. (1992)	M	
	4.9×10^{-2}		Brunner et al. (1990)	M	
	2.9×10^{-2}		Dunnivant et al. (1988)	M	
	2.9×10^{-2}		Dunnivant and Elzerman (1988)	M	266
	4.1×10^{-2}		Murphy et al. (1987)	M	9
	8.2×10^{-2}		Oliver (1985)	M	
	1.1×10^{-2}		Atlas et al. (1982)	M	253
			Westcott et al. (1981)	M	269
	3.7×10^{-3}	5700	Paasivirta and Sinkkonen (2009)	V	
	2.1×10^{-2}		Mackay et al. (2006b)	V	
	2.1×10^{-2}		Mackay et al. (1992a)	V	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	1.2×10^{-1}		McLachlan et al. (1990)	V	147
	2.1×10^{-2}		Shiu and Mackay (1986)	V	
	1.9×10^{-2}		Burkhard et al. (1985)	V	
	1.2×10^{-2}	7700	Paasivirta et al. (1999)	T	
	3.8×10^{-2}		Murphy et al. (1983)	X	267, 268
	7.9×10^{-2}		Hilal et al. (2008)	Q	
	9.7×10^{-2}		Fang Lee (2007)	Q	264
	4.6×10^{-2}		Fang Lee (2007)	Q	265
		4200	Kühne et al. (2005)	Q	
	3.1×10^{-2}		Dunnivant et al. (1992)	Q	
		4900	Kühne et al. (2005)	?	
2,2',5,6'-tetrachlorobiphenyl	2.4×10^{-2}		Dunnivant et al. (1988)	M	
$C_{12}H_6Cl_4$	2.4×10^{-2}		Dunnivant and Elzerman (1988)	M	266
(PCB-53)	3.5×10^{-2}		Murphy et al. (1987)	M	9
[41464-41-9]	1.6×10^{-3}	5500	Paasivirta and Sinkkonen (2009)	V	
	3.3×10^{-2}		Shiu and Mackay (1986)	V	
	8.9×10^{-3}		Burkhard et al. (1985)	V	
	8.8×10^{-2}		Hilal et al. (2008)	Q	
	5.3×10^{-2}		Fang Lee (2007)	Q	264
	4.1×10^{-2}		Fang Lee (2007)	Q	265
	2.3×10^{-2}		Dunnivant et al. (1992)	Q	
2,2',6,6'-tetrachlorobiphenyl	4.9×10^{-2}		Brunner et al. (1990)	M	
$C_{12}H_6Cl_4$	1.8×10^{-2}		Dunnivant et al. (1988)	M	
(PCB-54)	1.8×10^{-2}		Dunnivant and Elzerman (1988)	M	266
[15968-05-5]	1.0×10^{-4}	4800	Paasivirta and Sinkkonen (2009)	V	
	5.3×10^{-3}		Burkhard et al. (1985)	V	
	6.7×10^{-2}		Dunnivant et al. (1988)	C	
	1.2×10^{-1}		Hilal et al. (2008)	Q	
	3.3×10^{-2}		Fang Lee (2007)	Q	264
	2.7×10^{-2}		Fang Lee (2007)	Q	265
	1.7×10^{-2}		Dunnivant et al. (1992)	Q	
2,3,3',4-tetrachlorobiphenyl	9.6×10^{-3}	5900	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_6Cl_4$	8.7×10^{-2}		Burkhard et al. (1985)	V	
(PCB-55)	9.9×10^{-2}		Fang Lee (2007)	Q	264
[74338-24-2]	9.3×10^{-2}		Fang Lee (2007)	Q	265
	5.4×10^{-2}		Dunnivant et al. (1992)	Q	
	4.3×10^{-2}		Sabljić and Güsten (1989)	Q	
2,3,3',4'-tetrachlorobiphenyl	3.8×10^{-2}	3800	Bamford et al. (2002)	M	
$C_{12}H_6Cl_4$	6.1×10^{-2}		Murphy et al. (1987)	M	9
(PCB-56)	4.9×10^{-3}	5400	Paasivirta and Sinkkonen (2009)	V	
[41464-43-1]	1.1×10^{-1}		Burkhard et al. (1985)	V	
	7.5×10^{-2}		Fang Lee (2007)	Q	264
	9.7×10^{-2}		Fang Lee (2007)	Q	265
	6.5×10^{-2}		Dunnivant et al. (1992)	Q	
	7.5×10^{-2}		Sabljić and Güsten (1989)	Q	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,3,3',5-tetrachlorobiphenyl	8.9×10^{-3}	6100	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_6Cl_4$	5.1×10^{-2}		Burkhard et al. (1985)	V	
(PCB-57)	1.4×10^{-1}		Fang Lee (2007)	Q	264
[70424-67-8]	7.8×10^{-2}		Fang Lee (2007)	Q	265
	3.6×10^{-2}		Dunnivant et al. (1992)	Q	
	2.7×10^{-2}		Sabljić and Güsten (1989)	Q	
2,3,3',5'-tetrachlorobiphenyl	2.3×10^{-3}	5400	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_6Cl_4$	6.2×10^{-2}		Burkhard et al. (1985)	V	
(PCB-58)	1.5×10^{-1}		Fang Lee (2007)	Q	264
[41464-49-7]	8.1×10^{-2}		Fang Lee (2007)	Q	265
	3.9×10^{-2}		Dunnivant et al. (1992)	Q	
	2.4×10^{-2}		Sabljić and Güsten (1989)	Q	
2,3,3',6-tetrachlorobiphenyl	4.4×10^{-2}	6600	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_6Cl_4$	2.9×10^{-2}		Burkhard et al. (1985)	V	
(PCB-59)	8.3×10^{-2}		Fang Lee (2007)	Q	264
[74472-33-6]	8.3×10^{-2}		Fang Lee (2007)	Q	265
	3.2×10^{-2}		Dunnivant et al. (1992)	Q	
	2.7×10^{-2}		Sabljić and Güsten (1989)	Q	
2,3,4,4'-tetrachlorobiphenyl	6.1×10^{-2}		Murphy et al. (1987)	M	9
$C_{12}H_6Cl_4$	1.2×10^{-2}		Atlas et al. (1982)	M	253
(PCB-60)	2.9×10^{-3}	5500	Paasivirta and Sinkkonen (2009)	V	
[33025-41-1]	9.7×10^{-2}		Burkhard et al. (1985)	V	
	4.9×10^{-2}		Fang Lee (2007)	Q	264
	9.2×10^{-2}		Fang Lee (2007)	Q	265
	6.5×10^{-2}		Dunnivant et al. (1992)	Q	
	6.5×10^{-2}		Sabljić and Güsten (1989)	Q	
2,3,4,5-tetrachlorobiphenyl	4.9×10^{-2}	6600	Li et al. (2003)	L	143
$C_{12}H_6Cl_4$	5.0×10^{-2}	7200	Li et al. (2003)	L	144
(PCB-61)	4.9×10^{-3}	5600	Paasivirta and Sinkkonen (2009)	V	
[33284-53-6]	8.7×10^{-2}		Burkhard et al. (1985)	V	
	9.0×10^{-2}		Fang Lee (2007)	Q	264
	8.4×10^{-2}		Fang Lee (2007)	Q	265
	4.1×10^{-2}		Dunnivant et al. (1992)	Q	
	5.7×10^{-2}		Sabljić and Güsten (1989)	Q	
2,3,4,6-tetrachlorobiphenyl	4.7×10^{-2}		Brunner et al. (1990)	M	
$C_{12}H_6Cl_4$	7.1×10^{-3}	6000	Paasivirta and Sinkkonen (2009)	V	
(PCB-62)	3.3×10^{-2}		Burkhard et al. (1985)	V	
[54230-22-7]	4.0×10^{-2}		Hilal et al. (2008)	Q	
	5.5×10^{-2}		Fang Lee (2007)	Q	264
	6.4×10^{-2}		Fang Lee (2007)	Q	265
	2.7×10^{-2}		Dunnivant et al. (1992)	Q	
	2.7×10^{-2}		Sabljić and Güsten (1989)	Q	
2,3,4',5-tetrachlorobiphenyl	2.5×10^{-2}	3000	Bamford et al. (2002)	M	
$C_{12}H_6Cl_4$	3.4×10^{-2}		Murphy et al. (1987)	M	9
(PCB-63)	9.4×10^{-3}	6100	Paasivirta and Sinkkonen (2009)	V	
[74472-34-7]	5.6×10^{-2}		Burkhard et al. (1985)	V	
	6.8×10^{-2}		Fang Lee (2007)	Q	264
	7.1×10^{-2}		Fang Lee (2007)	Q	265
	4.1×10^{-2}		Dunnivant et al. (1992)	Q	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	3.4×10^{-2}		Sabljić and Güsten (1989)	Q	
2,3,4',6-tetrachlorobiphenyl	2.5×10^{-2}	2900	Bamford et al. (2002)	M	
$C_{12}H_6Cl_4$	5.8×10^{-2}		Murphy et al. (1987)	M	9
(PCB-64)	7.9×10^{-3}	6000	Paasivirta and Sinkkonen (2009)	V	
[52663-58-8]	3.2×10^{-2}		Burkhard et al. (1985)	V	
	1.1×10^{-1}		Hilal et al. (2008)	Q	
	4.2×10^{-2}		Fang Lee (2007)	Q	264
	7.7×10^{-2}		Fang Lee (2007)	Q	265
	3.6×10^{-2}		Dunnivant et al. (1992)	Q	
	3.5×10^{-2}		Sabljić and Güsten (1989)	Q	
2,3,5,6-tetrachlorobiphenyl	4.9×10^{-3}	5800	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_6Cl_4$	3.7×10^{-2}		Burkhard et al. (1985)	V	
(PCB-65)	5.3×10^{-2}		Hilal et al. (2008)	Q	
[33284-54-7]	7.6×10^{-2}		Fang Lee (2007)	Q	264
	9.9×10^{-2}		Fang Lee (2007)	Q	265
	2.9×10^{-2}		Dunnivant et al. (1992)	Q	
	3.2×10^{-2}		Sabljić and Güsten (1989)	Q	
2,3',4,4'-tetrachlorobiphenyl	2.7×10^{-2}	3500	Bamford et al. (2000)	M	
$C_{12}H_6Cl_4$	4.9×10^{-2}		Murphy et al. (1987)	M	9
(PCB-66)	3.0×10^{-3}	5300	Paasivirta and Sinkkonen (2009)	V	
[32598-10-0]	1.2×10^{-2}		Shiu and Mackay (1986)	V	
	7.3×10^{-2}		Burkhard et al. (1985)	V	
	2.1×10^{-1}		Hilal et al. (2008)	Q	
	4.3×10^{-2}		Fang Lee (2007)	Q	264
	6.8×10^{-2}		Fang Lee (2007)	Q	265
		5200	Kühne et al. (2005)	Q	
	4.9×10^{-2}		Dunnivant et al. (1992)	Q	
	3.9×10^{-2}		Sabljić and Güsten (1989)	Q	
		3800	Kühne et al. (2005)	?	
2,3',4,5-tetrachlorobiphenyl	9.9×10^{-2}		Brunner et al. (1990)	M	
$C_{12}H_6Cl_4$	1.6×10^{-2}	6200	Paasivirta and Sinkkonen (2009)	V	
(PCB-67)	5.2×10^{-2}		Burkhard et al. (1985)	V	
[73575-53-8]	1.9×10^{-1}		Hilal et al. (2008)	Q	
	7.9×10^{-2}		Fang Lee (2007)	Q	264
	6.8×10^{-2}		Fang Lee (2007)	Q	265
	4.2×10^{-2}		Dunnivant et al. (1992)	Q	
	3.4×10^{-2}		Sabljić and Güsten (1989)	Q	
2,3',4,5'-tetrachlorobiphenyl	7.2×10^{-3}	5800	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_6Cl_4$	4.3×10^{-2}		Burkhard et al. (1985)	V	
(PCB-68)	8.7×10^{-2}		Fang Lee (2007)	Q	264
[73575-52-7]	5.2×10^{-2}		Fang Lee (2007)	Q	265
	2.6×10^{-2}		Dunnivant et al. (1992)	Q	
	1.8×10^{-2}		Sabljić and Güsten (1989)	Q	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,3',4,6-tetrachlorobiphenyl	1.9×10^{-2}	6500	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_6Cl_4$	2.1×10^{-2}		Burkhard et al. (1985)	V	
(PCB-69)	7.9×10^{-2}		Hilal et al. (2008)	Q	
[60233-24-1]	4.8×10^{-2}		Fang Lee (2007)	Q	264
	4.5×10^{-2}		Fang Lee (2007)	Q	265
	2.0×10^{-2}		Dunnivant et al. (1992)	Q	
	1.6×10^{-2}		Sabljić and Güsten (1989)	Q	
2,3',4',5-tetrachlorobiphenyl	3.3×10^{-2}	3500	Bamford et al. (2002)	M	
$C_{12}H_6Cl_4$	9.9×10^{-2}		Brunner et al. (1990)	M	
(PCB-70)	5.2×10^{-2}		Murphy et al. (1987)	M	9
[32598-11-1]	4.0×10^{-3}	5400	Paasivirta and Sinkkonen (2009)	V	
	5.0×10^{-2}		Shiu and Mackay (1986)	V	
	6.5×10^{-2}		Burkhard et al. (1985)	V	
	2.0×10^{-1}		Hilal et al. (2008)	Q	
	6.0×10^{-2}		Fang Lee (2007)	Q	264
	6.4×10^{-2}		Fang Lee (2007)	Q	265
	4.9×10^{-2}		Dunnivant et al. (1992)	Q	
	5.2×10^{-2}		Sabljić and Güsten (1989)	Q	
2,3',4',6-tetrachlorobiphenyl	1.8×10^{-2}	6000	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_6Cl_4$	4.4×10^{-2}		Burkhard et al. (1985)	V	
(PCB-71)	3.6×10^{-2}		Fang Lee (2007)	Q	264
[41464-46-4]	7.0×10^{-2}		Fang Lee (2007)	Q	265
	3.1×10^{-2}		Dunnivant et al. (1992)	Q	
	3.1×10^{-2}		Sabljić and Güsten (1989)	Q	
2,3',5,5'-tetrachlorobiphenyl	4.0×10^{-3}	5700	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_6Cl_4$	3.9×10^{-2}		Burkhard et al. (1985)	V	
(PCB-72)	1.2×10^{-1}		Fang Lee (2007)	Q	264
[41464-42-0]	5.3×10^{-2}		Fang Lee (2007)	Q	265
	2.7×10^{-2}		Dunnivant et al. (1992)	Q	
	2.1×10^{-2}		Sabljić and Güsten (1989)	Q	
2,3',5',6-tetrachlorobiphenyl	6.4×10^{-3}	5900	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_6Cl_4$	2.6×10^{-2}		Burkhard et al. (1985)	V	
(PCB-73)	7.4×10^{-2}		Fang Lee (2007)	Q	264
[74338-23-1]	6.0×10^{-2}		Fang Lee (2007)	Q	265
	1.9×10^{-2}		Dunnivant et al. (1992)	Q	
	1.6×10^{-2}		Sabljić and Güsten (1989)	Q	
2,4,4',5-tetrachlorobiphenyl	2.6×10^{-2}	3000	Bamford et al. (2002)	M	
$C_{12}H_6Cl_4$	9.9×10^{-2}		Brunner et al. (1990)	M	
(PCB-74)	4.7×10^{-2}		Murphy et al. (1987)	M	9
[32690-93-0]	4.8×10^{-3}	5800	Paasivirta and Sinkkonen (2009)	V	
	5.8×10^{-2}		Burkhard et al. (1985)	V	
	2.0×10^{-1}		Hilal et al. (2008)	Q	
	3.9×10^{-2}		Fang Lee (2007)	Q	264
	6.5×10^{-2}		Fang Lee (2007)	Q	265
	4.6×10^{-2}		Dunnivant et al. (1992)	Q	
	4.7×10^{-2}		Sabljić and Güsten (1989)	Q	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,4,4',6-tetrachlorobiphenyl	2.1×10^{-2}	6400	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_6Cl_4$	2.4×10^{-2}		Burkhard et al. (1985)	V	
(PCB-75)	2.4×10^{-2}		Fang Lee (2007)	Q	264
[32598-12-2]	4.4×10^{-2}		Fang Lee (2007)	Q	265
	2.1×10^{-2}		Dunnivant et al. (1992)	Q	
	1.8×10^{-2}		Sabljić and Güsten (1989)	Q	
2,3',4',5'-tetrachlorobiphenyl	7.7×10^{-2}		Murphy et al. (1987)	M	9
$C_{12}H_6Cl_4$	2.3×10^{-3}	5500	Paasivirta and Sinkkonen (2009)	V	
(PCB-76)	8.2×10^{-2}		Burkhard et al. (1985)	V	
[70362-48-0]	1.4×10^{-1}		Fang Lee (2007)	Q	264
	7.0×10^{-2}		Fang Lee (2007)	Q	265
	4.1×10^{-2}		Dunnivant et al. (1992)	Q	
	4.4×10^{-2}		Sabljić and Güsten (1989)	Q	
3,3',4,4'-tetrachlorobiphenyl	3.1×10^{-2}		Lau et al. (2006)	M	262
$C_{12}H_6Cl_4$	1.8×10^{-2}		Lau et al. (2006)	M	263
(PCB-77)	9.1×10^{-2}		Fang et al. (2006)	M	
[32598-13-3]	2.9×10^{-2}	13000	Charles and Destaillats (2005)	M	
	6.2×10^{-2}	4800	Bamford et al. (2000)	M	
	1.0×10^{-1}		Dunnivant et al. (1988)	M	
	1.0×10^{-1}		Dunnivant and Elzerman (1988)	M	266
	6.0×10^{-4}	4600	Paasivirta and Sinkkonen (2009)	V	
	5.8×10^{-2}		Mackay et al. (2006b)	V	
	5.8×10^{-1}		Mackay et al. (1992a)	V	
	5.9×10^{-1}		Shiu and Mackay (1986)	V	
	2.3×10^{-1}		Burkhard et al. (1985)	V	
	8.3×10^{-3}	7400	Paasivirta et al. (1999)	T	
	3.6×10^{-1}		Hilal et al. (2008)	Q	
	9.4×10^{-2}		Fang Lee (2007)	Q	264
	8.0×10^{-2}		Fang Lee (2007)	Q	265
		6100	Kühne et al. (2005)	Q	
	9.6×10^{-2}		Dunnivant et al. (1992)	Q	
	7.9×10^{-2}		Meylan and Howard (1991)	Q	
		5600	Kühne et al. (2005)	?	
3,3',4,5-tetrachlorobiphenyl	5.1×10^{-3}	5600	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_6Cl_4$	1.7×10^{-1}		Burkhard et al. (1985)	V	
(PCB-78)	1.7×10^{-1}		Fang Lee (2007)	Q	264
[70362-49-1]	7.5×10^{-2}		Fang Lee (2007)	Q	265
	6.0×10^{-2}		Dunnivant et al. (1992)	Q	
	4.4×10^{-2}		Sabljić and Güsten (1989)	Q	
3,3',4,5'-tetrachlorobiphenyl	3.8×10^{-3}	5400	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_6Cl_4$	1.4×10^{-1}		Burkhard et al. (1985)	V	
(PCB-79)	2.5×10^{-1}		Hilal et al. (2008)	Q	
[41464-48-6]	1.9×10^{-1}		Fang Lee (2007)	Q	264
	6.3×10^{-2}		Fang Lee (2007)	Q	265
	5.0×10^{-2}		Dunnivant et al. (1992)	Q	
	2.9×10^{-2}		Sabljić and Güsten (1989)	Q	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
3,3',5,5'-tetrachlorobiphenyl	9.4×10^{-4}	5100	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_6Cl_4$	8.0×10^{-2}		Burkhard et al. (1985)	V	
(PCB-80)	2.6×10^{-1}		Fang Lee (2007)	Q	264
[33284-52-5]	5.2×10^{-2}		Fang Lee (2007)	Q	265
	2.6×10^{-2}		Dunnivant et al. (1992)	Q	
	1.6×10^{-2}		Sabljić and Güsten (1989)	Q	
3,4,4',5-tetrachlorobiphenyl	8.8×10^{-2}		Fang et al. (2006)	M	
$C_{12}H_6Cl_4$	4.1×10^{-2}	4000	Bamford et al. (2002)	M	
(PCB-81)	2.0×10^{-3}	5300	Paasivirta and Sinkkonen (2009)	V	
[70362-50-4]	1.9×10^{-1}		Burkhard et al. (1985)	V	
	8.6×10^{-2}		Fang Lee (2007)	Q	264
	7.2×10^{-2}		Fang Lee (2007)	Q	265
	6.9×10^{-2}		Dunnivant et al. (1992)	Q	
	6.7×10^{-2}		Sabljić and Güsten (1989)	Q	
2,2',3,3',4-pentachlorobiphenyl	2.7×10^{-2}	5100	Bamford et al. (2002)	M	
$C_{12}H_5Cl_5$	8.4×10^{-2}		Murphy et al. (1987)	M	9
(PCB-82)	3.2×10^{-3}	5800	Paasivirta and Sinkkonen (2009)	V	
[52663-62-4]	5.0×10^{-2}		Shiu and Mackay (1986)	V	
	8.0×10^{-2}		Burkhard et al. (1985)	V	
	1.6×10^{-1}		Fang Lee (2007)	Q	264
	1.5×10^{-1}		Fang Lee (2007)	Q	265
	6.7×10^{-2}		Dunnivant et al. (1992)	Q	
	8.1×10^{-2}		Sabljić and Güsten (1989)	Q	
2,2',3,3',5-pentachlorobiphenyl	2.3×10^{-2}	3600	Bamford et al. (2002)	M	
$C_{12}H_5Cl_5$	6.0×10^{-2}		Murphy et al. (1987)	M	9
(PCB-83)	7.7×10^{-3}	6300	Paasivirta and Sinkkonen (2009)	V	
[60145-20-2]	4.7×10^{-2}		Burkhard et al. (1985)	V	
	2.2×10^{-1}		Fang Lee (2007)	Q	264
	1.4×10^{-1}		Fang Lee (2007)	Q	265
	4.7×10^{-2}		Dunnivant et al. (1992)	Q	
	3.8×10^{-2}		Sabljić and Güsten (1989)	Q	
2,2',3,3',6-pentachlorobiphenyl	5.7×10^{-2}		Murphy et al. (1987)	M	9
$C_{12}H_5Cl_5$	2.3×10^{-3}	6000	Paasivirta and Sinkkonen (2009)	V	
(PCB-84)	1.9×10^{-2}		Burkhard et al. (1985)	V	
[52663-60-2]	1.3×10^{-1}		Fang Lee (2007)	Q	264
	1.2×10^{-1}		Fang Lee (2007)	Q	265
	3.9×10^{-2}		Dunnivant et al. (1992)	Q	
	4.3×10^{-2}		Sabljić and Güsten (1989)	Q	
2,2',3,4,4'-pentachlorobiphenyl	2.3×10^{-2}	3100	Bamford et al. (2002)	M	
$C_{12}H_5Cl_5$	1.5×10^{-1}		Brunner et al. (1990)	M	
(PCB-85)	6.0×10^{-2}		Murphy et al. (1987)	M	9
[65510-45-4]	2.8×10^{-2}	6600	Paasivirta and Sinkkonen (2009)	V	
	5.6×10^{-2}		Burkhard et al. (1985)	V	
	9.2×10^{-2}		Hilal et al. (2008)	Q	
	7.8×10^{-2}		Fang Lee (2007)	Q	264
	1.1×10^{-1}		Fang Lee (2007)	Q	265
	5.1×10^{-2}		Dunnivant et al. (1992)	Q	
	4.0×10^{-2}		Sabljić and Güsten (1989)	Q	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,2',3,4,5-pentachlorobiphenyl	8.9×10^{-3}	6500	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_5Cl_5$	6.6×10^{-3}		Mackay et al. (2006b)	V	
(PCB-86)	6.6×10^{-3}		Mackay et al. (1992a)	V	
[55312-69-1]	6.6×10^{-3}		Shiu and Mackay (1986)	V	
	1.2×10^{-2}		Burkhard et al. (1985)	V	
	7.5×10^{-2}		Hilal et al. (2008)	Q	
	1.4×10^{-1}		Fang Lee (2007)	Q	264
	1.2×10^{-1}		Fang Lee (2007)	Q	265
	4.1×10^{-2}		Dunnivant et al. (1992)	Q	
	5.8×10^{-2}		Sabljić and Güsten (1989)	Q	
2,2',3,4,5'-pentachlorobiphenyl	2.7×10^{-2}	3900	Bamford et al. (2000)	M	
$C_{12}H_5Cl_5$	7.8×10^{-2}		Murphy et al. (1987)	M	9
(PCB-87)	4.1×10^{-3}	6000	Paasivirta and Sinkkonen (2009)	V	
[38380-02-8]	4.0×10^{-2}		Mackay et al. (2006b)	V	
	4.0×10^{-2}		Mackay et al. (1992a)	V	
	4.0×10^{-2}		Shiu and Mackay (1986)	V	
	5.0×10^{-2}		Burkhard et al. (1985)	V	
	1.2×10^{-1}		Hilal et al. (2008)	Q	
	1.6×10^{-1}		Fang Lee (2007)	Q	264
	1.0×10^{-1}		Fang Lee (2007)	Q	265
		5000	Kühne et al. (2005)	Q	
	5.4×10^{-2}		Dunnivant et al. (1992)	Q	
	5.5×10^{-2}		Sabljić and Güsten (1989)	Q	
		4200	Kühne et al. (2005)	?	
2,2',3,4,6-pentachlorobiphenyl	9.6×10^{-3}	6800	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_5Cl_5$	7.3×10^{-3}		Burkhard et al. (1985)	V	
(PCB-88)	1.2×10^{-1}		Fang Lee (2007)	Q	264
[55215-17-3]	7.8×10^{-2}		Fang Lee (2007)	Q	265
	2.6×10^{-2}		Dunnivant et al. (1992)	Q	
	2.9×10^{-2}		Sabljić and Güsten (1989)	Q	
2,2',3,4,6'-pentachlorobiphenyl	2.2×10^{-2}	2500	Bamford et al. (2002)	M	
$C_{12}H_5Cl_5$	4.3×10^{-3}	6100	Paasivirta and Sinkkonen (2009)	V	
(PCB-89)	2.4×10^{-2}		Burkhard et al. (1985)	V	
[73575-57-2]	8.7×10^{-2}		Fang Lee (2007)	Q	264
	9.8×10^{-2}		Fang Lee (2007)	Q	265
	3.3×10^{-2}		Dunnivant et al. (1992)	Q	
	3.4×10^{-2}		Sabljić and Güsten (1989)	Q	
2,2',3,4',5-pentachlorobiphenyl	2.1×10^{-2}	6600	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_5Cl_5$	3.3×10^{-2}		Burkhard et al. (1985)	V	
(PCB-90)	1.1×10^{-1}		Fang Lee (2007)	Q	264
[68194-07-0]	8.8×10^{-2}		Fang Lee (2007)	Q	265
	3.4×10^{-2}		Dunnivant et al. (1992)	Q	
	2.6×10^{-2}		Sabljić and Güsten (1989)	Q	
2,2',3,4',6-pentachlorobiphenyl	1.9×10^{-2}	1200	Bamford et al. (2002)	M	
$C_{12}H_5Cl_5$	3.6×10^{-2}		Murphy et al. (1987)	M	9
(PCB-91)	1.1×10^{-2}	6500	Paasivirta and Sinkkonen (2009)	V	
[68194-05-8]	1.4×10^{-2}		Burkhard et al. (1985)	V	
	6.6×10^{-2}		Fang Lee (2007)	Q	264
	8.3×10^{-2}		Fang Lee (2007)	Q	265
	2.9×10^{-2}		Dunnivant et al. (1992)	Q	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	2.8×10^{-2}		Sabljić and Güsten (1989)	Q	
2,2',3,5,5'-pentachlorobiphenyl	2.2×10^{-2}	2900	Bamford et al. (2002)	M	
$C_{12}H_5Cl_5$	1.2×10^{-2}	6500	Paasivirta and Sinkkonen (2009)	V	
(PCB-92)	3.0×10^{-2}		Burkhard et al. (1985)	V	
[52663-61-3]	2.2×10^{-1}		Fang Lee (2007)	Q	264
	9.5×10^{-2}		Fang Lee (2007)	Q	265
	3.8×10^{-2}		Dunnivant et al. (1992)	Q	
	3.1×10^{-2}		Sabljić and Güsten (1989)	Q	
2,2',3,5,6-pentachlorobiphenyl	4.1×10^{-3}	6500	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_5Cl_5$	8.3×10^{-3}		Burkhard et al. (1985)	V	
(PCB-93)	1.2×10^{-1}		Fang Lee (2007)	Q	264
[73575-56-1]	1.3×10^{-1}		Fang Lee (2007)	Q	265
	2.9×10^{-2}		Dunnivant et al. (1992)	Q	
	3.5×10^{-2}		Sabljić and Güsten (1989)	Q	
2,2',3,5,6'-pentachlorobiphenyl	4.5×10^{-3}	6300	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_5Cl_5$	1.4×10^{-2}		Burkhard et al. (1985)	V	
(PCB-94)	1.2×10^{-1}		Fang Lee (2007)	Q	264
[73575-55-0]	9.1×10^{-2}		Fang Lee (2007)	Q	265
	2.5×10^{-2}		Dunnivant et al. (1992)	Q	
	2.3×10^{-2}		Sabljić and Güsten (1989)	Q	
2,2',3,5',6-pentachlorobiphenyl	2.1×10^{-2}	2500	Bamford et al. (2002)	M	
$C_{12}H_5Cl_5$	5.0×10^{-2}		Murphy et al. (1987)	M	9
(PCB-95)	3.3×10^{-3}	6200	Paasivirta and Sinkkonen (2009)	V	
[38379-99-6]	1.2×10^{-2}		Burkhard et al. (1985)	V	
	1.3×10^{-1}		Fang Lee (2007)	Q	264
	9.0×10^{-2}		Fang Lee (2007)	Q	265
	3.3×10^{-2}		Dunnivant et al. (1992)	Q	
	3.4×10^{-2}		Sabljić and Güsten (1989)	Q	
2,2',3,6,6'-pentachlorobiphenyl	8.7×10^{-4}	5800	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_5Cl_5$	7.2×10^{-3}		Burkhard et al. (1985)	V	
(PCB-96)	7.4×10^{-2}		Fang Lee (2007)	Q	264
[73575-54-9]	6.5×10^{-2}		Fang Lee (2007)	Q	265
	2.4×10^{-2}		Dunnivant et al. (1992)	Q	
	2.6×10^{-2}		Sabljić and Güsten (1989)	Q	
2,2',3,4',5'-pentachlorobiphenyl	2.3×10^{-2}	3600	Bamford et al. (2002)	M	
$C_{12}H_5Cl_5$	1.3×10^{-1}		Brunner et al. (1990)	M	
(PCB-97)	6.6×10^{-2}		Murphy et al. (1987)	M	9
[41464-51-1]	8.6×10^{-3}	6300	Paasivirta and Sinkkonen (2009)	V	
	4.8×10^{-2}		Burkhard et al. (1985)	V	
	1.5×10^{-1}		Hilal et al. (2008)	Q	
	1.2×10^{-1}		Fang Lee (2007)	Q	264
	1.1×10^{-1}		Fang Lee (2007)	Q	265
	5.5×10^{-2}		Dunnivant et al. (1992)	Q	
	5.5×10^{-2}		Sabljić and Güsten (1989)	Q	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,2',3,4',6'-pentachlorobiphenyl	5.5×10^{-3}	6300	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_5Cl_5$	1.5×10^{-2}		Burkhard et al. (1985)	V	
(PCB-98)	7.6×10^{-2}		Fang Lee (2007)	Q	264
[60233-25-2]	6.5×10^{-2}		Fang Lee (2007)	Q	265
	2.5×10^{-2}		Dunnivant et al. (1992)	Q	
	2.0×10^{-2}		Sabljić and Güsten (1989)	Q	
2,2',4,4',5-pentachlorobiphenyl	2.2×10^{-2}		Lau et al. (2006)	M	262
$C_{12}H_5Cl_5$	4.2×10^{-3}		Lau et al. (2006)	M	263
(PCB-99)	8.8×10^{-3}	8700	Charles and Destaillats (2005)	M	
[38380-01-7]	2.1×10^{-2}	1900	Bamford et al. (2002)	M	
	1.3×10^{-1}		Brunner et al. (1990)	M	
	4.6×10^{-2}		Murphy et al. (1987)	M	9
	2.1×10^{-2}	6600	Paasivirta and Sinkkonen (2009)	V	
	3.4×10^{-2}		Burkhard et al. (1985)	V	
	6.2×10^{-2}		Fang Lee (2007)	Q	264
	7.9×10^{-2}		Fang Lee (2007)	Q	265
	4.0×10^{-2}		Dunnivant et al. (1992)	Q	
	3.3×10^{-2}		Sabljić and Güsten (1989)	Q	
2,2',4,4',6-pentachlorobiphenyl	9.7×10^{-3}	6600	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_5Cl_5$	1.0×10^{-2}		Burkhard et al. (1985)	V	
(PCB-100)	3.8×10^{-2}		Fang Lee (2007)	Q	264
[39485-83-1]	4.6×10^{-2}		Fang Lee (2007)	Q	265
	1.8×10^{-2}		Dunnivant et al. (1992)	Q	
	1.6×10^{-2}		Sabljić and Güsten (1989)	Q	
2,2',4,5,5'-pentachlorobiphenyl	3.2×10^{-2}	6800	Li et al. (2003)	L	143
$C_{12}H_5Cl_5$	4.1×10^{-2}	7500	Li et al. (2003)	L	144
(PCB-101)	2.4×10^{-2}	3600	Bamford et al. (2000)	M	
[37680-73-2]	3.9×10^{-2}		Dunnivant et al. (1988)	M	
	3.9×10^{-2}		Dunnivant and Elzerman (1988)	M	266
	5.5×10^{-2}		Murphy et al. (1987)	M	9
	1.4×10^{-1}		Oliver (1985)	M	
			Westcott et al. (1981)	M	270
	8.9×10^{-3}	6400	Paasivirta and Sinkkonen (2009)	V	
	2.8×10^{-2}		Mackay et al. (2006b)	V	
	2.8×10^{-2}		Mackay et al. (1992a)	V	
	2.9×10^{-2}		Shiu and Mackay (1986)	V	
	3.1×10^{-2}		Burkhard et al. (1985)	V	
	2.0×10^{-2}	8100	Paasivirta et al. (1999)	T	
	1.2×10^{-1}		Hilal et al. (2008)	Q	
	1.3×10^{-1}		Fang Lee (2007)	Q	264
	7.9×10^{-2}		Fang Lee (2007)	Q	265
		4600	Kühne et al. (2005)	Q	
	4.0×10^{-2}		Dunnivant et al. (1992)	Q	
	1.1×10^{-1}		Meylan and Howard (1991)	Q	
		3900	Kühne et al. (2005)	?	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,2',4,5,6'-pentachlorobiphenyl	1.1×10^{-1}		Brunner et al. (1990)	M	
$C_{12}H_5Cl_5$	6.3×10^{-3}	6300	Paasivirta and Sinkkonen (2009)	V	
(PCB-102)	1.5×10^{-2}		Burkhard et al. (1985)	V	
[68194-06-9]	8.8×10^{-2}		Hilal et al. (2008)	Q	
	6.9×10^{-2}		Fang Lee (2007)	Q	264
	7.7×10^{-2}		Fang Lee (2007)	Q	265
	2.7×10^{-2}		Dunnivant et al. (1992)	Q	
	2.8×10^{-2}		Sabljić and Güsten (1989)	Q	
2,2',4,5',6-pentachlorobiphenyl	8.1×10^{-3}	6600	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_5Cl_5$	9.1×10^{-3}		Burkhard et al. (1985)	V	
(PCB-103)	7.7×10^{-2}		Fang Lee (2007)	Q	264
[60145-21-3]	4.6×10^{-2}		Fang Lee (2007)	Q	265
	2.0×10^{-2}		Dunnivant et al. (1992)	Q	
	1.8×10^{-2}		Sabljić and Güsten (1989)	Q	
2,2',4,6,6'-pentachlorobiphenyl	1.5×10^{-2}	1700	Bamford et al. (2000)	M	
$C_{12}H_5Cl_5$	1.1×10^{-2}		Dunnivant et al. (1988)	M	
(PCB-104)	1.1×10^{-2}		Dunnivant and Elzerman (1988)	M	266
[56558-16-8]	2.8×10^{-3}	6300	Paasivirta and Sinkkonen (2009)	V	
	4.3×10^{-2}		Mackay et al. (2006b)	V	
	7.2×10^{-2}		Mackay et al. (1992a)	V	
	5.4×10^{-3}		Burkhard et al. (1985)	V	
	4.2×10^{-2}		Fang Lee (2007)	Q	264
	3.4×10^{-2}		Fang Lee (2007)	Q	265
		3100	Kühne et al. (2005)	Q	
	1.3×10^{-2}		Dunnivant et al. (1992)	Q	
		2000	Kühne et al. (2005)	?	
2,3,3',4,4'-pentachlorobiphenyl	3.0×10^{-2}	6800	Li et al. (2003)	L	143
$C_{12}H_5Cl_5$	7.2×10^{-2}	7500	Li et al. (2003)	L	144
(PCB-105)	1.8×10^{-1}		Fang et al. (2006)	M	
[32598-14-4]	3.0×10^{-2}	9100	Bamford et al. (2000)	M	
	5.0×10^{-3}	5700	Paasivirta and Sinkkonen (2009)	V	
	1.8×10^{-1}		Burkhard et al. (1985)	V	
	2.9×10^{-2}	8300	Paasivirta et al. (1999)	T	
	9.7×10^{-2}		Fang Lee (2007)	Q	264
	1.4×10^{-1}		Fang Lee (2007)	Q	265
	9.9×10^{-2}		Dunnivant et al. (1992)	Q	
	1.6×10^{-1}		Sabljić and Güsten (1989)	Q	
2,3,3',4,5-pentachlorobiphenyl	1.3×10^{-2}	6500	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_5Cl_5$	2.5×10^{-2}		Burkhard et al. (1985)	V	
(PCB-106)	1.8×10^{-1}		Fang Lee (2007)	Q	264
[70424-69-0]	1.4×10^{-1}		Fang Lee (2007)	Q	265
	6.0×10^{-2}		Dunnivant et al. (1992)	Q	
	5.1×10^{-2}		Sabljić and Güsten (1989)	Q	
2,3,3',4',5-pentachlorobiphenyl	4.3×10^{-2}	2200	Bamford et al. (2002)	M	
$C_{12}H_5Cl_5$	1.7×10^{-1}		Murphy et al. (1987)	M	9
(PCB-107)	9.1×10^{-3}	6200	Paasivirta and Sinkkonen (2009)	V	
[70424-68-9]	1.0×10^{-1}		Burkhard et al. (1985)	V	
	2.0×10^{-1}		Fang Lee (2007)	Q	264
	1.2×10^{-1}		Fang Lee (2007)	Q	265
	6.2×10^{-2}		Dunnivant et al. (1992)	Q	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	4.9×10^{-2}		Sabljić and Güsten (1989)	Q	
2,3,3',4,5'-pentachlorobiphenyl	4.1×10^{-3}	5800	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_5Cl_5$	1.0×10^{-1}		Burkhard et al. (1985)	V	
(PCB-108)	1.1×10^{-1}		Fang Lee (2007)	Q	264
[70362-41-3]	1.1×10^{-1}		Fang Lee (2007)	Q	265
	5.6×10^{-2}		Dunnivant et al. (1992)	Q	
	2.8×10^{-2}		Sabljić and Güsten (1989)	Q	
2,3,3',4,6-pentachlorobiphenyl	1.5×10^{-2}	6600	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_5Cl_5$	2.1×10^{-2}		Burkhard et al. (1985)	V	
(PCB-109)	1.4×10^{-1}		Fang Lee (2007)	Q	264
[74472-35-8]	1.2×10^{-1}		Fang Lee (2007)	Q	265
	3.5×10^{-2}		Dunnivant et al. (1992)	Q	
	2.5×10^{-2}		Sabljić and Güsten (1989)	Q	
2,3,3',4',6-pentachlorobiphenyl	2.3×10^{-2}	5200	Bamford et al. (2002)	M	
$C_{12}H_5Cl_5$	9.3×10^{-2}		Murphy et al. (1987)	M	9
(PCB-110)	1.8×10^{-2}	6400	Paasivirta and Sinkkonen (2009)	V	
[38380-03-9]	5.8×10^{-2}		Burkhard et al. (1985)	V	
	8.3×10^{-2}		Fang Lee (2007)	Q	264
	1.4×10^{-1}		Fang Lee (2007)	Q	265
		5000	Kühne et al. (2005)	Q	
	5.0×10^{-2}		Dunnivant et al. (1992)	Q	
	5.2×10^{-2}		Sabljić and Güsten (1989)	Q	
		4300	Kühne et al. (2005)	?	
2,3,3',5,5'-pentachlorobiphenyl	6.5×10^{-3}	6200	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_5Cl_5$	6.2×10^{-2}		Burkhard et al. (1985)	V	
(PCB-111)	2.7×10^{-1}		Fang Lee (2007)	Q	264
[39635-32-0]	7.8×10^{-2}		Fang Lee (2007)	Q	265
	3.7×10^{-2}		Dunnivant et al. (1992)	Q	
	2.0×10^{-2}		Sabljić and Güsten (1989)	Q	
2,3,3',5,6-pentachlorobiphenyl	7.8×10^{-3}	6600	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_5Cl_5$	2.4×10^{-2}		Burkhard et al. (1985)	V	
(PCB-112)	1.5×10^{-1}		Fang Lee (2007)	Q	264
[74472-36-9]	2.0×10^{-1}		Fang Lee (2007)	Q	265
	3.7×10^{-2}		Dunnivant et al. (1992)	Q	
	3.0×10^{-2}		Sabljić and Güsten (1989)	Q	
2,3,3',5',6-pentachlorobiphenyl	1.5×10^{-2}	6500	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_5Cl_5$	3.5×10^{-2}		Burkhard et al. (1985)	V	
(PCB-113)	1.7×10^{-1}		Fang Lee (2007)	Q	264
[68194-10-5]	1.2×10^{-1}		Fang Lee (2007)	Q	265
	3.0×10^{-2}		Dunnivant et al. (1992)	Q	
	2.1×10^{-2}		Sabljić and Güsten (1989)	Q	
2,3,4,4',5-pentachlorobiphenyl	5.3×10^{-2}		Fang et al. (2006)	M	
$C_{12}H_5Cl_5$	1.4×10^{-1}		Murphy et al. (1987)	M	9
(PCB-114)	1.2×10^{-2}	6400	Paasivirta and Sinkkonen (2009)	V	
[74472-37-0]	2.8×10^{-2}		Burkhard et al. (1985)	V	
	8.9×10^{-2}		Fang Lee (2007)	Q	264
	1.3×10^{-1}		Fang Lee (2007)	Q	265
	6.9×10^{-2}		Dunnivant et al. (1992)	Q	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	8.7×10^{-2}		Sabljić and Güsten (1989)	Q	
2,3,4,4',6-pentachlorobiphenyl	2.6×10^{-2}	6900	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_5Cl_5$	2.3×10^{-2}		Burkhard et al. (1985)	V	
(PCB-115)	5.4×10^{-2}		Fang Lee (2007)	Q	264
[74472-38-1]	1.1×10^{-1}		Fang Lee (2007)	Q	265
	4.0×10^{-2}		Dunnivant et al. (1992)	Q	
	3.2×10^{-2}		Sabljić and Güsten (1989)	Q	
2,3,4,5,6-pentachlorobiphenyl	4.3×10^{-3}	6500	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_5Cl_5$	5.5×10^{-2}		Burkhard et al. (1985)	V	
(PCB-116)	9.9×10^{-2}		Fang Lee (2007)	Q	264
[18259-05-7]	1.8×10^{-1}		Fang Lee (2007)	Q	265
	3.3×10^{-2}		Dunnivant et al. (1992)	Q	
	4.3×10^{-2}		Sabljić and Güsten (1989)	Q	
2,3,4',5,6-pentachlorobiphenyl	1.5×10^{-3}	5900	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_5Cl_5$	2.7×10^{-2}		Burkhard et al. (1985)	V	
(PCB-117)	7.5×10^{-2}		Fang Lee (2007)	Q	264
[68194-11-6]	1.7×10^{-1}		Fang Lee (2007)	Q	265
	4.1×10^{-2}		Dunnivant et al. (1992)	Q	
	4.0×10^{-2}		Sabljić and Güsten (1989)	Q	
2,3',4,4',5-pentachlorobiphenyl	3.1×10^{-2}	6800	Li et al. (2003)	L	143
$C_{12}H_5Cl_5$	6.9×10^{-2}	7600	Li et al. (2003)	L	144
(PCB-118)	1.1×10^{-2}		Lau et al. (2006)	M	262
[31508-00-6]	5.6×10^{-3}		Lau et al. (2006)	M	263
	5.7×10^{-2}		Fang et al. (2006)	M	
	1.8×10^{-2}	14000	Charles and Destaillats (2005)	M	
	2.8×10^{-2}	6000	Bamford et al. (2000)	M	
	1.2×10^{-1}		Murphy et al. (1987)	M	9
	6.6×10^{-3}	6000	Paasivirta and Sinkkonen (2009)	V	
	1.1×10^{-1}		Burkhard et al. (1985)	V	
	2.6×10^{-2}	8100	Paasivirta et al. (1999)	T	
	7.8×10^{-2}		Fang Lee (2007)	Q	264
	1.0×10^{-1}		Fang Lee (2007)	Q	265
		5600	Kühne et al. (2005)	Q	
	7.9×10^{-2}		Dunnivant et al. (1992)	Q	
	8.5×10^{-2}		Sabljić and Güsten (1989)	Q	
		6300	Kühne et al. (2005)	?	
2,3',4,4',6-pentachlorobiphenyl	1.5×10^{-2}	4600	Bamford et al. (2002)	M	
$C_{12}H_5Cl_5$	1.5×10^{-2}	6500	Paasivirta and Sinkkonen (2009)	V	
(PCB-119)	4.4×10^{-2}		Burkhard et al. (1985)	V	
[56558-17-9]	1.6×10^{-1}		Hilal et al. (2008)	Q	
	4.7×10^{-2}		Fang Lee (2007)	Q	264
	7.4×10^{-2}		Fang Lee (2007)	Q	265
	3.2×10^{-2}		Dunnivant et al. (1992)	Q	
	2.2×10^{-2}		Sabljić and Güsten (1989)	Q	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,3',4,5,5'-pentachlorobiphenyl	1.8×10^{-1}		Brunner et al. (1990)	M	
$C_{12}H_5Cl_5$	3.9×10^{-3}	6000	Paasivirta and Sinkkonen (2009)	V	
(PCB-120)	6.4×10^{-2}		Burkhard et al. (1985)	V	
[68194-12-7]	2.5×10^{-1}		Hilal et al. (2008)	Q	
	1.6×10^{-1}		Fang Lee (2007)	Q	264
	8.3×10^{-2}		Fang Lee (2007)	Q	265
	4.0×10^{-2}		Dunnivant et al. (1992)	Q	
	2.4×10^{-2}		Sabljić and Güsten (1989)	Q	
2,3',4,5',6-pentachlorobiphenyl	8.5×10^{-3}	6500	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_5Cl_5$	2.6×10^{-2}		Burkhard et al. (1985)	V	
(PCB-121)	9.6×10^{-2}		Fang Lee (2007)	Q	264
[56558-18-0]	6.2×10^{-2}		Fang Lee (2007)	Q	265
	1.8×10^{-2}		Dunnivant et al. (1992)	Q	
	1.3×10^{-2}		Sabljić and Güsten (1989)	Q	
2,3,3',4',5'-pentachlorobiphenyl	1.6×10^{-1}		Murphy et al. (1987)	M	9
$C_{12}H_5Cl_5$	4.3×10^{-3}	5800	Paasivirta and Sinkkonen (2009)	V	
(PCB-122)	1.6×10^{-1}		Burkhard et al. (1985)	V	
[76842-07-4]	2.8×10^{-1}		Fang Lee (2007)	Q	264
	1.4×10^{-1}		Fang Lee (2007)	Q	265
	7.9×10^{-2}		Dunnivant et al. (1992)	Q	
	7.2×10^{-2}		Sabljić and Güsten (1989)	Q	
2,3',4,4',5'-pentachlorobiphenyl	4.6×10^{-2}		Fang et al. (2006)	M	
$C_{12}H_5Cl_5$	3.7×10^{-3}	5800	Paasivirta and Sinkkonen (2009)	V	
(PCB-123)	1.1×10^{-1}		Burkhard et al. (1985)	V	
[65510-44-3]	1.4×10^{-1}		Fang Lee (2007)	Q	264
	9.3×10^{-2}		Fang Lee (2007)	Q	265
	5.7×10^{-2}		Dunnivant et al. (1992)	Q	
	3.8×10^{-2}		Sabljić and Güsten (1989)	Q	
2,3',4',5,5'-pentachlorobiphenyl	1.9×10^{-1}		Murphy et al. (1987)	M	9
$C_{12}H_5Cl_5$	4.5×10^{-3}	5900	Paasivirta and Sinkkonen (2009)	V	
(PCB-124)	1.0×10^{-1}		Burkhard et al. (1985)	V	
[70424-70-3]	2.8×10^{-1}		Fang Lee (2007)	Q	264
	9.4×10^{-2}		Fang Lee (2007)	Q	265
	5.8×10^{-2}		Dunnivant et al. (1992)	Q	
	5.1×10^{-2}		Sabljić and Güsten (1989)	Q	
2,3',4',5',6-pentachlorobiphenyl	2.3×10^{-3}	5800	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_5Cl_5$	6.7×10^{-2}		Burkhard et al. (1985)	V	
(PCB-125)	1.5×10^{-1}		Fang Lee (2007)	Q	264
[74472-39-2]	1.1×10^{-1}		Fang Lee (2007)	Q	265
	3.4×10^{-2}		Dunnivant et al. (1992)	Q	
	3.0×10^{-2}		Sabljić and Güsten (1989)	Q	
3,3',4,4',5-pentachlorobiphenyl	1.0×10^{-1}		Fang et al. (2006)	M	
$C_{12}H_5Cl_5$	4.8×10^{-2}	12000	Bamford et al. (2000)	M	
(PCB-126)	1.6×10^{-3}	5400	Paasivirta and Sinkkonen (2009)	V	
[57465-28-8]	3.6×10^{-1}		Burkhard et al. (1985)	V	
	6.5×10^{-2}	8800	Paasivirta et al. (1999)	T	
	1.7×10^{-1}		Fang Lee (2007)	Q	264
	1.0×10^{-1}		Fang Lee (2007)	Q	265
	1.2×10^{-1}		Dunnivant et al. (1992)	Q	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	1.8×10^{-1}		Sabljić and Güsten (1989)	Q	
3,3',4,5,5'-pentachlorobiphenyl	2.2×10^{-3}	5600	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_5Cl_5$	2.2×10^{-1}		Burkhard et al. (1985)	V	
(PCB-127)	3.4×10^{-1}		Fang Lee (2007)	Q	264
[39635-33-1]	8.4×10^{-2}		Fang Lee (2007)	Q	265
	6.3×10^{-2}		Dunnivant et al. (1992)	Q	
	2.9×10^{-2}		Sabljić and Güsten (1989)	Q	
2,2',3,3',4,4'-hexachlorobiphenyl	2.8×10^{-2}	14000	Bamford et al. (2000)	M	
$C_{12}H_4Cl_6$	7.6×10^{-1}		Brunner et al. (1990)	M	
(PCB-128)	3.3×10^{-1}		Dunnivant et al. (1988)	M	
[38380-07-3]	3.3×10^{-1}		Dunnivant and Elzerman (1988)	M	266
	1.7×10^{-1}		Murphy et al. (1987)	M	9
	6.9×10^{-3}	6100	Paasivirta and Sinkkonen (2009)	V	
	8.4×10^{-2}		Mackay et al. (2006b)	V	
	8.4×10^{-2}		Mackay et al. (1992a)	V	
	8.3×10^{-2}		Shiu and Mackay (1986)	V	
	1.5×10^{-1}		Burkhard et al. (1985)	V	
	2.0×10^{-2}		Murphy et al. (1983)	X	267, 268
	1.8×10^{-1}		Hilal et al. (2008)	Q	
	1.5×10^{-1}		Fang Lee (2007)	Q	264
	2.4×10^{-1}		Fang Lee (2007)	Q	265
	9.5×10^{-2}		Dunnivant et al. (1992)	Q	
2,2',3,3',4,5-hexachlorobiphenyl	3.4×10^{-1}		Brunner et al. (1990)	M	
$C_{12}H_4Cl_6$	6.4×10^{-3}	6400	Paasivirta and Sinkkonen (2009)	V	
(PCB-129)	2.5×10^{-2}		Burkhard et al. (1985)	V	
[55215-18-4]	1.6×10^{-1}		Hilal et al. (2008)	Q	
	2.9×10^{-1}		Fang Lee (2007)	Q	264
	2.6×10^{-1}		Fang Lee (2007)	Q	265
	7.1×10^{-2}		Dunnivant et al. (1992)	Q	
	1.2×10^{-1}		Sabljić and Güsten (1989)	Q	
2,2',3,3',4,5'-hexachlorobiphenyl	2.7×10^{-1}		Brunner et al. (1990)	M	
$C_{12}H_4Cl_6$	9.2×10^{-2}		Murphy et al. (1987)	M	9
(PCB-130)	5.9×10^{-3}	6500	Paasivirta and Sinkkonen (2009)	V	
[52663-66-8]	8.7×10^{-2}		Burkhard et al. (1985)	V	
	1.9×10^{-1}		Hilal et al. (2008)	Q	
	3.1×10^{-1}		Fang Lee (2007)	Q	264
	2.1×10^{-1}		Fang Lee (2007)	Q	265
	6.5×10^{-2}		Dunnivant et al. (1992)	Q	
	5.1×10^{-2}		Sabljić and Güsten (1989)	Q	
2,2',3,3',4,6-hexachlorobiphenyl	1.5×10^{-1}		Murphy et al. (1987)	M	9
$C_{12}H_4Cl_6$	3.0×10^{-3}	6500	Paasivirta and Sinkkonen (2009)	V	
(PCB-131)	1.6×10^{-2}		Burkhard et al. (1985)	V	
[61798-70-7]	1.6×10^{-1}		Hilal et al. (2008)	Q	
	1.7×10^{-1}		Fang Lee (2007)	Q	264
	1.9×10^{-1}		Fang Lee (2007)	Q	265
	4.1×10^{-2}		Dunnivant et al. (1992)	Q	
	3.8×10^{-2}		Sabljić and Güsten (1989)	Q	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,2',3,3',4,6'-hexachlorobiphenyl	4.0×10^{-2}	2400	Bamford et al. (2002)	M	
$C_{12}H_4Cl_6$	2.2×10^{-1}		Brunner et al. (1990)	M	
(PCB-132)	4.1×10^{-3}	6400	Paasivirta and Sinkkonen (2009)	V	
[38380-05-1]	3.6×10^{-2}		Burkhard et al. (1985)	V	
	2.2×10^{-1}		Hilal et al. (2008)	Q	
	1.7×10^{-1}		Fang Lee (2007)	Q	264
	2.1×10^{-1}		Fang Lee (2007)	Q	265
	4.9×10^{-2}		Dunnivant et al. (1992)	Q	
	6.1×10^{-2}		Sabljić and Güsten (1989)	Q	
2,2',3,3',5,5'-hexachlorobiphenyl	4.1×10^{-3}	6500	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_4Cl_6$	5.2×10^{-2}		Burkhard et al. (1985)	V	
(PCB-133)	1.8×10^{-1}		Hilal et al. (2008)	Q	
[35694-04-3]	4.3×10^{-1}		Fang Lee (2007)	Q	264
	2.0×10^{-1}		Fang Lee (2007)	Q	265
	4.8×10^{-2}		Dunnivant et al. (1992)	Q	
	3.0×10^{-2}		Sabljić and Güsten (1989)	Q	
2,2',3,3',5,6-hexachlorobiphenyl	1.2×10^{-2}	7300	Bamford et al. (2002)	M	
$C_{12}H_4Cl_6$	2.0×10^{-1}		Brunner et al. (1990)	M	
(PCB-134)	1.0×10^{-1}		Murphy et al. (1987)	M	9
[52704-70-8]	2.8×10^{-3}	6400	Paasivirta and Sinkkonen (2009)	V	
	1.8×10^{-2}		Burkhard et al. (1985)	V	
	2.0×10^{-1}		Hilal et al. (2008)	Q	
	2.4×10^{-1}		Fang Lee (2007)	Q	264
	3.2×10^{-1}		Fang Lee (2007)	Q	265
	4.3×10^{-2}		Dunnivant et al. (1992)	Q	
	4.9×10^{-2}		Sabljić and Güsten (1989)	Q	
2,2',3,3',5,6'-hexachlorobiphenyl	1.5×10^{-2}	5500	Bamford et al. (2002)	M	
$C_{12}H_4Cl_6$	1.8×10^{-1}		Brunner et al. (1990)	M	
(PCB-135)	7.0×10^{-2}		Murphy et al. (1987)	M	9
[52744-13-5]	4.8×10^{-3}	6600	Paasivirta and Sinkkonen (2009)	V	
	2.1×10^{-2}		Burkhard et al. (1985)	V	
	2.3×10^{-1}		Hilal et al. (2008)	Q	
	2.4×10^{-1}		Fang Lee (2007)	Q	264
	2.1×10^{-1}		Fang Lee (2007)	Q	265
	3.7×10^{-2}		Dunnivant et al. (1992)	Q	
	3.2×10^{-2}		Sabljić and Güsten (1989)	Q	
2,2',3,3',6,6'-hexachlorobiphenyl	9.0×10^{-3}	5400	Bamford et al. (2002)	M	
$C_{12}H_4Cl_6$	1.1×10^{-1}		Brunner et al. (1990)	M	
(PCB-136)	4.4×10^{-2}		Murphy et al. (1987)	M	9
[38411-22-2]	1.6×10^{-3}	6300	Paasivirta and Sinkkonen (2009)	V	
	1.1×10^{-2}		Burkhard et al. (1985)	V	
	2.7×10^{-1}		Hilal et al. (2008)	Q	
	1.4×10^{-1}		Fang Lee (2007)	Q	264
	1.6×10^{-1}		Fang Lee (2007)	Q	265
	3.1×10^{-2}		Dunnivant et al. (1992)	Q	
	3.9×10^{-2}		Sabljić and Güsten (1989)	Q	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,2',3,4,4',5-hexachlorobiphenyl	4.5×10^{-2}	3200	Bamford et al. (2002)	M	
$C_{12}H_4Cl_6$	1.5×10^{-1}		Murphy et al. (1987)	M	9
(PCB-137)	1.8×10^{-2}	6800	Paasivirta and Sinkkonen (2009)	V	
[35694-06-5]	1.8×10^{-2}		Burkhard et al. (1985)	V	
	1.4×10^{-1}		Fang Lee (2007)	Q	264
	1.7×10^{-1}		Fang Lee (2007)	Q	265
	5.3×10^{-2}		Dunnivant et al. (1992)	Q	
	4.7×10^{-2}		Sabljić and Güsten (1989)	Q	
2,2',3,4,4',5'-hexachlorobiphenyl	2.5×10^{-2}	7100	Li et al. (2003)	L	143
$C_{12}H_4Cl_6$	3.3×10^{-2}	7700	Li et al. (2003)	L	144
(PCB-138)	2.2×10^{-2}	10000	Bamford et al. (2000)	M	
[35065-28-2]	4.7×10^{-1}		Brunner et al. (1990)	M	
	1.3×10^{-1}		Murphy et al. (1987)	M	9
	1.8×10^{-2}	6800	Paasivirta and Sinkkonen (2009)	V	
	1.2×10^{-2}		Shiu and Mackay (1986)	V	
	9.1×10^{-2}		Burkhard et al. (1985)	V	
	4.7×10^{-2}	8700	Paasivirta et al. (1999)	T	
	1.8×10^{-1}		Hilal et al. (2008)	Q	
	1.6×10^{-1}		Fang Lee (2007)	Q	264
	1.8×10^{-1}		Fang Lee (2007)	Q	265
	7.6×10^{-2}		Dunnivant et al. (1992)	Q	
	9.2×10^{-2}		Sabljić and Güsten (1989)	Q	
2,2',3,4,4',6-hexachlorobiphenyl	1.4×10^{-2}	6900	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_4Cl_6$	1.1×10^{-2}		Burkhard et al. (1985)	V	
(PCB-139)	8.6×10^{-2}		Fang Lee (2007)	Q	264
[56030-56-9]	1.3×10^{-1}		Fang Lee (2007)	Q	265
	3.0×10^{-2}		Dunnivant et al. (1992)	Q	
	2.6×10^{-2}		Sabljić and Güsten (1989)	Q	
2,2',3,4,4',6'-hexachlorobiphenyl	1.7×10^{-2}	7000	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_4Cl_6$	2.7×10^{-2}		Burkhard et al. (1985)	V	
(PCB-140)	8.5×10^{-2}		Fang Lee (2007)	Q	264
[59291-64-4]	1.1×10^{-1}		Fang Lee (2007)	Q	265
	3.2×10^{-2}		Dunnivant et al. (1992)	Q	
	2.3×10^{-2}		Sabljić and Güsten (1989)	Q	
2,2',3,4,5,5'-hexachlorobiphenyl	2.0×10^{-2}	8400	Bamford et al. (2002)	M	
$C_{12}H_4Cl_6$	4.3×10^{-1}		Brunner et al. (1990)	M	
(PCB-141)	1.0×10^{-1}		Murphy et al. (1987)	M	9
[52712-04-6]	1.0×10^{-2}	6700	Paasivirta and Sinkkonen (2009)	V	
	2.5×10^{-2}		Shiu and Mackay (1986)	V	
	1.6×10^{-2}		Burkhard et al. (1985)	V	
	1.3×10^{-1}		Hilal et al. (2008)	Q	
	2.9×10^{-1}		Fang Lee (2007)	Q	264
	1.8×10^{-1}		Fang Lee (2007)	Q	265
	5.7×10^{-2}		Dunnivant et al. (1992)	Q	
	6.9×10^{-2}		Sabljić and Güsten (1989)	Q	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,2',3,4,5,6-hexachlorobiphenyl	4.0×10^{-3}	6900	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_4Cl_6$	1.4×10^{-2}		Burkhard et al. (1985)	V	
(PCB-142)	1.6×10^{-1}		Fang Lee (2007)	Q	264
[41411-61-4]	2.4×10^{-1}		Fang Lee (2007)	Q	265
	3.1×10^{-2}		Dunnivant et al. (1992)	Q	
	4.7×10^{-2}		Sabljić and Güsten (1989)	Q	
2,2',3,4,5,6'-hexachlorobiphenyl	6.5×10^{-3}	6600	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_4Cl_6$	7.8×10^{-3}		Burkhard et al. (1985)	V	
(PCB-143)	1.6×10^{-1}		Hilal et al. (2008)	Q	
[68194-15-0]	1.6×10^{-1}		Fang Lee (2007)	Q	264
	1.9×10^{-1}		Fang Lee (2007)	Q	265
	3.4×10^{-2}		Dunnivant et al. (1992)	Q	
	3.9×10^{-2}		Sabljić and Güsten (1989)	Q	
2,2',3,4,5',6-hexachlorobiphenyl	7.0×10^{-2}		Murphy et al. (1987)	M	9
$C_{12}H_4Cl_6$	1.2×10^{-2}	7000	Paasivirta and Sinkkonen (2009)	V	
(PCB-144)	1.7×10^{-2}		Shiu and Mackay (1986)	V	
[68194-14-9]	1.0×10^{-2}		Burkhard et al. (1985)	V	
	1.8×10^{-1}		Fang Lee (2007)	Q	264
	1.4×10^{-1}		Fang Lee (2007)	Q	265
	3.3×10^{-2}		Dunnivant et al. (1992)	Q	
	3.1×10^{-2}		Sabljić and Güsten (1989)	Q	
2,2',3,4,6,6'-hexachlorobiphenyl	1.5×10^{-3}	6400	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_4Cl_6$	5.9×10^{-3}		Burkhard et al. (1985)	V	
(PCB-145)	9.6×10^{-2}		Fang Lee (2007)	Q	264
[74472-40-5]	1.1×10^{-1}		Fang Lee (2007)	Q	265
	2.1×10^{-2}		Dunnivant et al. (1992)	Q	
	2.4×10^{-2}		Sabljić and Güsten (1989)	Q	
2,2',3,4',5,5'-hexachlorobiphenyl	1.7×10^{-2}	7100	Bamford et al. (2002)	M	
$C_{12}H_4Cl_6$	3.9×10^{-1}		Brunner et al. (1990)	M	
(PCB-146)	1.1×10^{-1}		Murphy et al. (1987)	M	9
[51908-16-8]	1.2×10^{-2}	6800	Paasivirta and Sinkkonen (2009)	V	
	5.4×10^{-2}		Burkhard et al. (1985)	V	
	2.0×10^{-1}		Hilal et al. (2008)	Q	
	2.2×10^{-1}		Fang Lee (2007)	Q	264
	1.6×10^{-1}		Fang Lee (2007)	Q	265
	5.3×10^{-2}		Dunnivant et al. (1992)	Q	
	4.0×10^{-2}		Sabljić and Güsten (1989)	Q	
2,2',3,4',5,6-hexachlorobiphenyl	1.9×10^{-1}		Brunner et al. (1990)	M	
$C_{12}H_4Cl_6$	3.1×10^{-3}	6500	Paasivirta and Sinkkonen (2009)	V	
(PCB-147)	1.3×10^{-2}		Burkhard et al. (1985)	V	
[68194-13-8]	1.8×10^{-1}		Hilal et al. (2008)	Q	
	1.2×10^{-1}		Fang Lee (2007)	Q	264
	2.1×10^{-1}		Fang Lee (2007)	Q	265
	3.1×10^{-2}		Dunnivant et al. (1992)	Q	
	3.1×10^{-2}		Sabljić and Güsten (1989)	Q	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,2',3,4',5,6'-hexachlorobiphenyl	1.2×10^{-2}	7000	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_4Cl_6$	1.6×10^{-2}		Burkhard et al. (1985)	V	
(PCB-148)	1.2×10^{-1}		Fang Lee (2007)	Q	264
[74472-41-6]	1.0×10^{-1}		Fang Lee (2007)	Q	265
	2.3×10^{-2}		Dunnivant et al. (1992)	Q	
	1.7×10^{-2}		Sabljić and Güsten (1989)	Q	
2,2',3,4',5',6-hexachlorobiphenyl	1.5×10^{-2}	5500	Bamford et al. (2002)	M	
$C_{12}H_4Cl_6$	6.7×10^{-2}		Murphy et al. (1987)	M	9
(PCB-149)	1.0×10^{-2}	6800	Paasivirta and Sinkkonen (2009)	V	
[38380-04-0]	3.3×10^{-2}		Shiu and Mackay (1986)	V	
	2.2×10^{-2}		Burkhard et al. (1985)	V	
	1.3×10^{-1}		Fang Lee (2007)	Q	264
	1.7×10^{-1}		Fang Lee (2007)	Q	265
	4.2×10^{-2}		Dunnivant et al. (1992)	Q	
	4.5×10^{-2}		Sabljić and Güsten (1989)	Q	
2,2',3,4',6,6'-hexachlorobiphenyl	6.5×10^{-3}	6900	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_4Cl_6$	8.2×10^{-3}		Burkhard et al. (1985)	V	
(PCB-150)	7.2×10^{-2}		Fang Lee (2007)	Q	264
[68194-08-1]	8.0×10^{-2}		Fang Lee (2007)	Q	265
	2.0×10^{-2}		Dunnivant et al. (1992)	Q	
	1.9×10^{-2}		Sabljić and Güsten (1989)	Q	
2,2',3,5,5',6-hexachlorobiphenyl	1.4×10^{-2}	4500	Bamford et al. (2002)	M	
$C_{12}H_4Cl_6$	1.7×10^{-1}		Brunner et al. (1990)	M	
(PCB-151)	6.3×10^{-2}		Murphy et al. (1987)	M	9
[52663-63-5]	5.2×10^{-3}	6700	Paasivirta and Sinkkonen (2009)	V	
	3.3×10^{-2}		Shiu and Mackay (1986)	V	
	1.2×10^{-2}		Burkhard et al. (1985)	V	
	1.6×10^{-1}		Hilal et al. (2008)	Q	
	2.4×10^{-1}		Fang Lee (2007)	Q	264
	2.4×10^{-1}		Fang Lee (2007)	Q	265
	3.5×10^{-2}		Dunnivant et al. (1992)	Q	
	3.8×10^{-2}		Sabljić and Güsten (1989)	Q	
2,2',3,5,6,6'-hexachlorobiphenyl	1.3×10^{-3}	6300	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_4Cl_6$	6.8×10^{-3}		Burkhard et al. (1985)	V	
(PCB-152)	1.3×10^{-1}		Fang Lee (2007)	Q	264
[68194-09-2]	1.9×10^{-1}		Fang Lee (2007)	Q	265
	2.3×10^{-2}		Dunnivant et al. (1992)	Q	
	2.8×10^{-2}		Sabljić and Güsten (1989)	Q	
2,2',4,4',5,5'-hexachlorobiphenyl	4.0×10^{-2}	7100	Li et al. (2003)	L	143
$C_{12}H_4Cl_6$	5.1×10^{-2}	7900	Li et al. (2003)	L	144
(PCB-153)	1.9×10^{-2}	8000	Bamford et al. (2000)	M	
[35065-27-1]	4.3×10^{-1}		Brunner et al. (1990)	M	
	7.5×10^{-2}		Dunnivant et al. (1988)	M	
	7.5×10^{-2}		Dunnivant and Elzerman (1988)	M	266
	1.0×10^{-1}		Murphy et al. (1987)	M	9
	1.6×10^{-1}		Oliver (1985)	M	
	1.1×10^{-2}	6700	Paasivirta and Sinkkonen (2009)	V	
	2.3×10^{-2}		Mackay et al. (2006b)	V	
	2.3×10^{-2}		Mackay et al. (1992a)	V	
	2.3×10^{-2}		Shiu and Mackay (1986)	V	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	5.6×10^{-2}		Burkhard et al. (1985)	V	
	1.7×10^{-2}	8400	Paasivirta et al. (1999)	T	
	2.8×10^{-2}		Murphy et al. (1983)	X	267, 268
	8.0×10^{-2}		Dunnivant et al. (1988)	C	
	1.8×10^{-1}		Hilal et al. (2008)	Q	
	1.2×10^{-1}		Fang Lee (2007)	Q	264
	1.4×10^{-1}		Fang Lee (2007)	Q	265
	6.0×10^{-2}		Dunnivant et al. (1992)	Q	
2,2',4,4',5,6'-hexachlorobiphenyl	1.3×10^{-2}	5600	Bamford et al. (2000)	M	
$C_{12}H_4Cl_6$	1.7×10^{-2}	7100	Paasivirta and Sinkkonen (2009)	V	
(PCB-154)	1.7×10^{-2}		Burkhard et al. (1985)	V	
[60145-22-4]	6.8×10^{-2}		Fang Lee (2007)	Q	264
	8.7×10^{-2}		Fang Lee (2007)	Q	265
	2.6×10^{-2}		Dunnivant et al. (1992)	Q	
	2.0×10^{-2}		Sabljić and Güsten (1989)	Q	
2,2',4,4',6,6'-hexachlorobiphenyl	1.3×10^{-2}	7100	Li et al. (2003)	L	143
$C_{12}H_4Cl_6$	1.1×10^{-2}	7600	Li et al. (2003)	L	144
(PCB-155)	1.3×10^{-2}		Dunnivant et al. (1988)	M	
[33979-03-2]	1.3×10^{-2}		Dunnivant and Elzerman (1988)	M	266
	4.6×10^{-3}	6900	Paasivirta and Sinkkonen (2009)	V	
	1.2×10^{-2}		Mackay et al. (2006b)	V	
	1.2×10^{-2}		Mackay et al. (1992a)	V	
	1.2×10^{-3}		Shiu and Mackay (1986)	V	
	6.4×10^{-3}		Burkhard et al. (1985)	V	
	8.6×10^{-2}		Dunnivant et al. (1988)	C	
	4.2×10^{-2}		Fang Lee (2007)	Q	264
	4.2×10^{-2}		Fang Lee (2007)	Q	265
	1.2×10^{-2}		Dunnivant et al. (1992)	Q	
2,3,3',4,4',5-hexachlorobiphenyl	6.8×10^{-2}		Fang et al. (2006)	M	
$C_{12}H_4Cl_6$	2.9×10^{-2}	13000	Bamford et al. (2002)	M	
(PCB-156)	5.9×10^{-3}	6200	Paasivirta and Sinkkonen (2009)	V	
[38380-08-4]	1.1×10^{-2}		Shiu and Mackay (1986)	V	
	5.7×10^{-2}		Burkhard et al. (1985)	V	
	1.8×10^{-1}		Fang Lee (2007)	Q	264
	2.0×10^{-1}		Fang Lee (2007)	Q	265
	1.1×10^{-1}		Dunnivant et al. (1992)	Q	
	4.5×10^{-1}		Sabljić and Güsten (1989)	Q	
2,3,3',4,4',5'-hexachlorobiphenyl	6.0×10^{-2}		Fang et al. (2006)	M	
$C_{12}H_4Cl_6$	3.4×10^{-2}	16000	Bamford et al. (2002)	M	
(PCB-157)	2.3×10^{-3}	5900	Paasivirta and Sinkkonen (2009)	V	
[69782-90-7]	1.7×10^{-2}		Shiu and Mackay (1986)	V	
	3.0×10^{-1}		Burkhard et al. (1985)	V	
	1.9×10^{-1}		Fang Lee (2007)	Q	264
	2.0×10^{-1}		Fang Lee (2007)	Q	265
		6300	Kühne et al. (2005)	Q	
	1.2×10^{-1}		Dunnivant et al. (1992)	Q	
	1.5×10^{-1}		Sabljić and Güsten (1989)	Q	
		5100	Kühne et al. (2005)	?	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,3,3',4,4',6-hexachlorobiphenyl	2.1×10^{-2}	9600	Bamford et al. (2002)	M	
$C_{12}H_4Cl_6$	2.3×10^{-1}		Murphy et al. (1987)	M	9
(PCB-158)	9.2×10^{-3}	6600	Paasivirta and Sinkkonen (2009)	V	
[74472-42-7]	1.5×10^{-2}		Shiu and Mackay (1986)	V	
	4.8×10^{-2}		Burkhard et al. (1985)	V	
	1.1×10^{-1}		Fang Lee (2007)	Q	264
	1.9×10^{-1}		Fang Lee (2007)	Q	265
	6.0×10^{-2}		Dunnivant et al. (1992)	Q	
	4.6×10^{-2}		Sabljić and Güsten (1989)	Q	
2,3,3',4,5,5'-hexachlorobiphenyl	4.9×10^{-1}		Brunner et al. (1990)	M	
$C_{12}H_4Cl_6$	2.9×10^{-3}	6100	Paasivirta and Sinkkonen (2009)	V	
(PCB-159)	3.4×10^{-2}		Burkhard et al. (1985)	V	
[39635-35-3]	2.6×10^{-1}		Hilal et al. (2008)	Q	
	3.6×10^{-1}		Fang Lee (2007)	Q	264
	1.8×10^{-1}		Fang Lee (2007)	Q	265
	6.3×10^{-2}		Dunnivant et al. (1992)	Q	
	3.2×10^{-2}		Sabljić and Güsten (1989)	Q	
2,3,3',4,5,6-hexachlorobiphenyl	4.9×10^{-1}		Brunner et al. (1990)	M	
$C_{12}H_4Cl_6$	7.9×10^{-3}	7100	Paasivirta and Sinkkonen (2009)	V	
(PCB-160)	4.0×10^{-2}		Burkhard et al. (1985)	V	
[41411-62-5]	1.2×10^{-1}		Hilal et al. (2008)	Q	
	2.0×10^{-1}		Fang Lee (2007)	Q	264
	3.3×10^{-1}		Fang Lee (2007)	Q	265
	4.6×10^{-2}		Dunnivant et al. (1992)	Q	
	3.9×10^{-2}		Sabljić and Güsten (1989)	Q	
2,3,3',4,5',6-hexachlorobiphenyl	9.2×10^{-3}	6800	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_4Cl_6$	2.9×10^{-2}		Burkhard et al. (1985)	V	
(PCB-161)	2.2×10^{-1}		Fang Lee (2007)	Q	264
[74472-43-8]	1.7×10^{-1}		Fang Lee (2007)	Q	265
	3.5×10^{-2}		Dunnivant et al. (1992)	Q	
	2.0×10^{-2}		Sabljić and Güsten (1989)	Q	
2,3,3',4',5,5'-hexachlorobiphenyl	3.7×10^{-3}	6200	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_4Cl_6$	1.8×10^{-1}		Burkhard et al. (1985)	V	
(PCB-162)	2.7×10^{-1}		Fang Lee (2007)	Q	264
[39635-34-2]	1.8×10^{-1}		Fang Lee (2007)	Q	265
	7.5×10^{-2}		Dunnivant et al. (1992)	Q	
	4.8×10^{-2}		Sabljić and Güsten (1989)	Q	
2,3,3',4',5,6-hexachlorobiphenyl	2.1×10^{-2}	9700	Bamford et al. (2002)	M	
$C_{12}H_4Cl_6$	6.6×10^{-1}		Brunner et al. (1990)	M	
(PCB-163)	4.9×10^{-3}	6400	Paasivirta and Sinkkonen (2009)	V	
[74472-44-9]	5.4×10^{-2}		Burkhard et al. (1985)	V	
	2.5×10^{-1}		Hilal et al. (2008)	Q	
	1.5×10^{-1}		Fang Lee (2007)	Q	264
	3.1×10^{-1}		Fang Lee (2007)	Q	265
	6.0×10^{-2}		Dunnivant et al. (1992)	Q	
	6.3×10^{-2}		Sabljić and Güsten (1989)	Q	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,3,3',4',5',6-hexachlorobiphenyl	9.5×10^{-3}	6500	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_4Cl_6$	1.0×10^{-1}		Burkhard et al. (1985)	V	
(PCB-164)	1.6×10^{-1}		Fang Lee (2007)	Q	264
[74472-45-0]	2.3×10^{-1}		Fang Lee (2007)	Q	265
	5.6×10^{-2}		Dunnivant et al. (1992)	Q	
	5.0×10^{-2}		Sabljić and Güsten (1989)	Q	
2,3,3',5,5',6-hexachlorobiphenyl	3.4×10^{-1}		Brunner et al. (1990)	M	
$C_{12}H_4Cl_6$	2.5×10^{-3}	6400	Paasivirta and Sinkkonen (2009)	V	
(PCB-165)	3.2×10^{-2}		Burkhard et al. (1985)	V	
[74472-46-1]	1.6×10^{-1}		Hilal et al. (2008)	Q	
	3.0×10^{-1}		Fang Lee (2007)	Q	264
	2.9×10^{-1}		Fang Lee (2007)	Q	265
	3.6×10^{-2}		Dunnivant et al. (1992)	Q	
	2.2×10^{-2}		Sabljić and Güsten (1989)	Q	
2,3,4,4',5,6-hexachlorobiphenyl	3.5×10^{-3}	6500	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_4Cl_6$	4.4×10^{-2}		Burkhard et al. (1985)	V	
(PCB-166)	1.2×10^{-1}		Hilal et al. (2008)	Q	
[41411-63-6]	9.8×10^{-2}		Fang Lee (2007)	Q	264
	2.9×10^{-1}		Fang Lee (2007)	Q	265
		4100	Kühne et al. (2005)	Q	
	5.4×10^{-2}		Dunnivant et al. (1992)	Q	
	5.7×10^{-2}		Sabljić and Güsten (1989)	Q	
		5800	Kühne et al. (2005)	?	
2,3',4,4',5,5'-hexachlorobiphenyl	7.8×10^{-2}		Fang et al. (2006)	M	
$C_{12}H_4Cl_6$	2.7×10^{-2}	13000	Bamford et al. (2002)	M	
(PCB-167)	7.3×10^{-3}	6400	Paasivirta and Sinkkonen (2009)	V	
[52663-72-6]	1.9×10^{-1}		Burkhard et al. (1985)	V	
	1.6×10^{-1}		Fang Lee (2007)	Q	264
	1.4×10^{-1}		Fang Lee (2007)	Q	265
	9.0×10^{-2}		Dunnivant et al. (1992)	Q	
	8.0×10^{-2}		Sabljić and Güsten (1989)	Q	
2,3',4,4',5',6-hexachlorobiphenyl	1.1×10^{-2}	6700	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_4Cl_6$	7.7×10^{-2}		Burkhard et al. (1985)	V	
(PCB-168)	9.4×10^{-2}		Fang Lee (2007)	Q	264
[59291-65-5]	1.2×10^{-1}		Fang Lee (2007)	Q	265
	3.6×10^{-2}		Dunnivant et al. (1992)	Q	
	2.1×10^{-2}		Sabljić and Güsten (1989)	Q	
3,3',4,4',5,5'-hexachlorobiphenyl	8.1×10^{-2}		Fang et al. (2006)	M	
$C_{12}H_4Cl_6$	4.7×10^{-2}	19000	Bamford et al. (2002)	M	
(PCB-169)	4.0×10^{-4}	5100	Paasivirta and Sinkkonen (2009)	V	
[32774-16-6]	6.4×10^{-1}		Burkhard et al. (1985)	V	
	2.3×10^{-2}	9000	Paasivirta et al. (1999)	T	
	3.4×10^{-1}		Fang Lee (2007)	Q	264
	1.3×10^{-1}		Fang Lee (2007)	Q	265
	1.5×10^{-1}		Dunnivant et al. (1992)	Q	
	1.7×10^{-1}		Sabljić and Güsten (1989)	Q	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,2',3,3',4,4',5-heptachlorobiphenyl	4.8×10^{-2}	20000	Bamford et al. (2000)	M	
$C_{12}H_3Cl_7$	1.1		Brunner et al. (1990)	M	
(PCB-170)	6.6×10^{-1}		Murphy et al. (1987)	M	9
[35065-30-6]	7.8×10^{-3}	6600	Paasivirta and Sinkkonen (2009)	V	
	5.2×10^{-2}		Burkhard et al. (1985)	V	
	2.1×10^{-1}		Hilal et al. (2008)	Q	
	2.8×10^{-1}		Fang Lee (2007)	Q	264
	4.0×10^{-1}		Fang Lee (2007)	Q	265
	1.1×10^{-1}		Dunnivant et al. (1992)	Q	
2,2',3,3',4,4',6-heptachlorobiphenyl	1.3×10^{-2}	7100	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_3Cl_7$	1.9×10^{-1}		Mackay et al. (2006b)	V	
(PCB-171)	1.9×10^{-1}		Mackay et al. (1992a)	V	
[52663-71-5]	1.9×10^{-1}		Shiu and Mackay (1986)	V	
	3.4×10^{-2}		Burkhard et al. (1985)	V	
	2.1×10^{-1}		Hilal et al. (2008)	Q	
	1.7×10^{-1}		Fang Lee (2007)	Q	264
	3.1×10^{-1}		Fang Lee (2007)	Q	265
	5.7×10^{-2}		Dunnivant et al. (1992)	Q	
2,2',3,3',4,5,5'-heptachlorobiphenyl	7.6×10^{-1}		Brunner et al. (1990)	M	
$C_{12}H_3Cl_7$	8.3×10^{-3}	6800	Paasivirta and Sinkkonen (2009)	V	
(PCB-172)	3.1×10^{-2}		Burkhard et al. (1985)	V	
[52663-74-8]	5.6×10^{-1}		Fang Lee (2007)	Q	264
	3.8×10^{-1}		Fang Lee (2007)	Q	265
	8.3×10^{-2}		Dunnivant et al. (1992)	Q	
2,2',3,3',4,5,6-heptachlorobiphenyl	7.0×10^{-1}		Brunner et al. (1990)	M	
$C_{12}H_3Cl_7$	1.3×10^{-3}	6500	Paasivirta and Sinkkonen (2009)	V	
(PCB-173)	3.3×10^{-2}		Burkhard et al. (1985)	V	
[68194-16-1]	1.8×10^{-1}		Hilal et al. (2008)	Q	
	3.1×10^{-1}		Fang Lee (2007)	Q	264
	5.9×10^{-1}		Fang Lee (2007)	Q	265
	5.4×10^{-2}		Dunnivant et al. (1992)	Q	
2,2',3,3',4,5,6'-heptachlorobiphenyl	2.2×10^{-2}	14000	Bamford et al. (2002)	M	
$C_{12}H_3Cl_7$	7.0×10^{-1}		Brunner et al. (1990)	M	
(PCB-174)	2.0×10^{-1}		Murphy et al. (1987)	M	9
[38411-25-5]	5.4×10^{-3}	6700	Paasivirta and Sinkkonen (2009)	V	
	1.3×10^{-2}		Burkhard et al. (1985)	V	
	2.6×10^{-1}		Hilal et al. (2008)	Q	
	3.1×10^{-1}		Fang Lee (2007)	Q	264
	4.3×10^{-1}		Fang Lee (2007)	Q	265
	5.8×10^{-2}		Dunnivant et al. (1992)	Q	
2,2',3,3',4,5',6-heptachlorobiphenyl	1.0×10^{-2}	7200	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_3Cl_7$	2.0×10^{-2}		Burkhard et al. (1985)	V	
(PCB-175)	3.4×10^{-1}		Fang Lee (2007)	Q	264
[40186-70-7]	3.0×10^{-1}		Fang Lee (2007)	Q	265
	4.4×10^{-2}		Dunnivant et al. (1992)	Q	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,2',3,3',4,6,6'-heptachlorobiphenyl	1.1×10^{-1}		Murphy et al. (1987)	M	9
$C_{12}H_3Cl_7$	8.5×10^{-3}	7200	Paasivirta and Sinkkonen (2009)	V	
(PCB-176)	1.0×10^{-2}		Burkhard et al. (1985)	V	
[52663-65-7]	1.9×10^{-1}		Fang Lee (2007)	Q	264
	2.6×10^{-1}		Fang Lee (2007)	Q	265
	3.3×10^{-2}		Dunnivant et al. (1992)	Q	
2,2',3,3',4,5',6'-heptachlorobiphenyl	2.1×10^{-2}	13000	Bamford et al. (2002)	M	
$C_{12}H_3Cl_7$	3.0×10^{-1}		Murphy et al. (1987)	M	9
(PCB-177)	3.4×10^{-3}	6600	Paasivirta and Sinkkonen (2009)	V	
[52663-70-4]	3.8×10^{-2}		Burkhard et al. (1985)	V	
	2.4×10^{-1}		Fang Lee (2007)	Q	264
	5.3×10^{-1}		Fang Lee (2007)	Q	265
	6.0×10^{-2}		Dunnivant et al. (1992)	Q	
2,2',3,3',5,5',6-heptachlorobiphenyl	1.5×10^{-2}	11000	Bamford et al. (2002)	M	
$C_{12}H_3Cl_7$	4.3×10^{-1}		Brunner et al. (1990)	M	
(PCB-178)	1.5×10^{-1}		Murphy et al. (1987)	M	9
[52663-67-9]	1.0×10^{-2}	7200	Paasivirta and Sinkkonen (2009)	V	
	2.3×10^{-2}		Burkhard et al. (1985)	V	
	2.7×10^{-1}		Hilal et al. (2008)	Q	
	4.8×10^{-1}		Fang Lee (2007)	Q	264
	5.6×10^{-1}		Fang Lee (2007)	Q	265
	4.6×10^{-2}		Dunnivant et al. (1992)	Q	
2,2',3,3',5,6,6'-heptachlorobiphenyl	4.1×10^{-1}		Brunner et al. (1990)	M	
$C_{12}H_3Cl_7$	4.2×10^{-3}	7000	Paasivirta and Sinkkonen (2009)	V	
(PCB-179)	1.1×10^{-2}		Burkhard et al. (1985)	V	
[52663-64-6]	3.1×10^{-1}		Hilal et al. (2008)	Q	
	2.6×10^{-1}		Fang Lee (2007)	Q	264
	4.8×10^{-1}		Fang Lee (2007)	Q	265
	3.6×10^{-2}		Dunnivant et al. (1992)	Q	
2,2',3,4,4',5,5'-heptachlorobiphenyl	1.7×10^{-1}	7300	Li et al. (2003)	L	143
$C_{12}H_3Cl_7$	1.2×10^{-1}	7900	Li et al. (2003)	L	144
(PCB-180)	2.7×10^{-2}	17000	Bamford et al. (2000)	M	
[35065-29-3]	9.9×10^{-1}		Brunner et al. (1990)	M	
	3.1×10^{-1}		Murphy et al. (1987)	M	9
	1.5×10^{-2}	6900	Paasivirta and Sinkkonen (2009)	V	
	3.3×10^{-2}		Burkhard et al. (1985)	V	
	2.5×10^{-2}	9000	Paasivirta et al. (1999)	T	
	2.1×10^{-1}		Hilal et al. (2008)	Q	
	2.8×10^{-1}		Fang Lee (2007)	Q	264
	3.0×10^{-1}		Fang Lee (2007)	Q	265
	9.2×10^{-2}		Dunnivant et al. (1992)	Q	
2,2',3,4,4',5,6-heptachlorobiphenyl	1.2×10^{-2}	7200	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_3Cl_7$	2.4×10^{-2}		Burkhard et al. (1985)	V	
(PCB-181)	1.6×10^{-1}		Fang Lee (2007)	Q	264
[74472-47-2]	3.8×10^{-1}		Fang Lee (2007)	Q	265
	4.3×10^{-2}		Dunnivant et al. (1992)	Q	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,2',3,4,4',5,6'-heptachlorobiphenyl	1.7×10^{-2}	12000	Bamford et al. (2002)	M	
$C_{12}H_3Cl_7$	1.7×10^{-2}	7200	Paasivirta and Sinkkonen (2009)	V	
(PCB-182)	1.0×10^{-2}		Burkhard et al. (1985)	V	
[60145-23-5]	1.5×10^{-1}		Fang Lee (2007)	Q	264
	2.1×10^{-1}		Fang Lee (2007)	Q	265
	3.8×10^{-2}		Dunnivant et al. (1992)	Q	
2,2',3,4,4',5',6-heptachlorobiphenyl	1.7×10^{-2}	12000	Bamford et al. (2002)	M	
$C_{12}H_3Cl_7$	1.5×10^{-1}		Murphy et al. (1987)	M	9
(PCB-183)	2.4×10^{-2}	7400	Paasivirta and Sinkkonen (2009)	V	
[52663-69-1]	2.1×10^{-2}		Burkhard et al. (1985)	V	
	1.7×10^{-1}		Fang Lee (2007)	Q	264
	2.5×10^{-1}		Fang Lee (2007)	Q	265
	4.9×10^{-2}		Dunnivant et al. (1992)	Q	
2,2',3,4,4',6,6'-heptachlorobiphenyl	8.1×10^{-3}	7200	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_3Cl_7$	7.9×10^{-3}		Burkhard et al. (1985)	V	
(PCB-184)	9.4×10^{-2}		Fang Lee (2007)	Q	264
[74472-48-3]	1.3×10^{-1}		Fang Lee (2007)	Q	265
	2.2×10^{-2}		Dunnivant et al. (1992)	Q	
2,2',3,4,5,5',6-heptachlorobiphenyl	6.2×10^{-1}		Brunner et al. (1990)	M	
$C_{12}H_3Cl_7$	4.9×10^{-3}	7000	Paasivirta and Sinkkonen (2009)	V	
(PCB-185)	2.2×10^{-2}		Burkhard et al. (1985)	V	
[52712-05-7]	1.5×10^{-1}		Hilal et al. (2008)	Q	
	3.1×10^{-1}		Fang Lee (2007)	Q	264
	4.3×10^{-1}		Fang Lee (2007)	Q	265
	4.6×10^{-2}		Dunnivant et al. (1992)	Q	
2,2',3,4,5,6,6'-heptachlorobiphenyl	9.6×10^{-4}	6500	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_3Cl_7$	1.3×10^{-2}		Burkhard et al. (1985)	V	
(PCB-186)	1.7×10^{-1}		Fang Lee (2007)	Q	264
[74472-49-4]	3.7×10^{-1}		Fang Lee (2007)	Q	265
	2.7×10^{-2}		Dunnivant et al. (1992)	Q	
2,2',3,4',5,5',6-heptachlorobiphenyl	1.6×10^{-2}	12000	Bamford et al. (2000)	M	
$C_{12}H_3Cl_7$	1.2×10^{-1}		Murphy et al. (1987)	M	9
(PCB-187)	1.3×10^{-2}	7200	Paasivirta and Sinkkonen (2009)	V	
[52663-68-0]	2.4×10^{-2}		Burkhard et al. (1985)	V	
	2.4×10^{-1}		Fang Lee (2007)	Q	264
	4.3×10^{-1}		Fang Lee (2007)	Q	265
	4.9×10^{-2}		Dunnivant et al. (1992)	Q	
2,2',3,4',5,6,6'-heptachlorobiphenyl	8.8×10^{-3}	7500	Bamford et al. (2000)	M	
$C_{12}H_3Cl_7$	4.8×10^{-3}	7100	Paasivirta and Sinkkonen (2009)	V	
(PCB-188)	8.8×10^{-3}		Burkhard et al. (1985)	V	
[74487-85-7]	1.3×10^{-1}		Fang Lee (2007)	Q	264
	2.3×10^{-1}		Fang Lee (2007)	Q	265
	2.2×10^{-2}		Dunnivant et al. (1992)	Q	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,3,3',4,4',5,5'-heptachlorobiphenyl	8.4×10^{-2}		Fang et al. (2006)	M	
$C_{12}H_3Cl_7$	4.1×10^{-3}	6300	Paasivirta and Sinkkonen (2009)	V	
(PCB-189)	1.1×10^{-1}		Burkhard et al. (1985)	V	
[39635-31-9]	3.4×10^{-1}		Fang Lee (2007)	Q	264
	3.0×10^{-1}		Fang Lee (2007)	Q	265
	1.5×10^{-1}		Dunnivant et al. (1992)	Q	
2,3,3',4,4',5,6-heptachlorobiphenyl	1.5×10^{-2}	7000	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_3Cl_7$	9.9×10^{-2}		Burkhard et al. (1985)	V	
(PCB-190)	1.9×10^{-1}		Fang Lee (2007)	Q	264
[41411-64-7]	5.3×10^{-1}		Fang Lee (2007)	Q	265
	8.8×10^{-2}		Dunnivant et al. (1992)	Q	
2,3,3',4,4',5',6-heptachlorobiphenyl	2.1×10^{-2}	7200	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_3Cl_7$	5.8×10^{-2}		Burkhard et al. (1985)	V	
(PCB-191)	2.1×10^{-1}		Fang Lee (2007)	Q	264
[74472-50-7]	3.2×10^{-1}		Fang Lee (2007)	Q	265
	7.4×10^{-2}		Dunnivant et al. (1992)	Q	
2,3,3',4,5,5',6-heptachlorobiphenyl	4.9×10^{-3}	6900	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_3Cl_7$	6.1×10^{-2}		Burkhard et al. (1985)	V	
(PCB-192)	3.8×10^{-1}		Fang Lee (2007)	Q	264
[74472-51-8]	5.0×10^{-1}		Fang Lee (2007)	Q	265
	5.2×10^{-2}		Dunnivant et al. (1992)	Q	
2,3,3',4',5,5',6-heptachlorobiphenyl	3.2×10^{-2}	17000	Bamford et al. (2002)	M	
$C_{12}H_3Cl_7$	7.5×10^{-3}	6800	Paasivirta and Sinkkonen (2009)	V	
(PCB-193)	1.0×10^{-1}		Burkhard et al. (1985)	V	
[69782-91-8]	2.9×10^{-1}		Fang Lee (2007)	Q	264
	5.6×10^{-1}		Fang Lee (2007)	Q	265
	7.3×10^{-2}		Dunnivant et al. (1992)	Q	
2,2',3,3',4,4',5,5'-octachlorobiphenyl	1.5×10^{-1}	7500	Li et al. (2003)	L	143
$C_{12}H_2Cl_8$	2.3×10^{-1}	8200	Li et al. (2003)	L	144
(PCB-194)	1.0×10^{-1}	20000	Bamford et al. (2002)	M	
[35694-08-7]	9.9×10^{-1}		Brunner et al. (1990)	M	
	8.0×10^{-3}	6900	Paasivirta and Sinkkonen (2009)	V	
	2.1×10^{-2}		Burkhard et al. (1985)	V	
	2.3×10^{-1}		Hilal et al. (2008)	Q	
	5.6×10^{-1}		Fang Lee (2007)	Q	264
	7.1×10^{-1}		Fang Lee (2007)	Q	265
		6500	Kühne et al. (2005)	Q	
	1.5×10^{-1}		Dunnivant et al. (1992)	Q	
		6600	Kühne et al. (2005)	?	
2,2',3,3',4,4',5,6-octachlorobiphenyl	7.1×10^{-2}	20000	Bamford et al. (2000)	M	
$C_{12}H_2Cl_8$	9.0×10^{-1}		Brunner et al. (1990)	M	
(PCB-195)	7.1×10^{-3}	7100	Paasivirta and Sinkkonen (2009)	V	
[52663-78-2]	7.8×10^{-2}		Burkhard et al. (1985)	V	
	2.4×10^{-1}		Hilal et al. (2008)	Q	
	3.1×10^{-1}		Fang Lee (2007)	Q	264
	1.0		Fang Lee (2007)	Q	265
	8.3×10^{-2}		Dunnivant et al. (1992)	Q	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,2',3,3',4,4',5,6'-octachlorobiphenyl	9.9×10^{-1}		Brunner et al. (1990)	M	
$C_{12}H_2Cl_8$	1.8×10^{-2}	7400	Paasivirta and Sinkkonen (2009)	V	
(PCB-196)	1.4×10^{-2}		Burkhard et al. (1985)	V	
[42740-50-1]	2.2×10^{-1}		Hilal et al. (2008)	Q	
	3.4×10^{-1}		Fang Lee (2007)	Q	264
	6.2×10^{-1}		Fang Lee (2007)	Q	265
	7.6×10^{-2}		Dunnivant et al. (1992)	Q	
2,2',3,3',4,4',6,6'-octachlorobiphenyl	1.3×10^{-2}	7600	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_2Cl_8$	1.1×10^{-2}		Burkhard et al. (1985)	V	
(PCB-197)	1.9×10^{-1}		Fang Lee (2007)	Q	264
[33091-17-7]	4.2×10^{-1}		Fang Lee (2007)	Q	265
	3.9×10^{-2}		Dunnivant et al. (1992)	Q	
2,2',3,3',4,5,5',6-octachlorobiphenyl	7.0×10^{-1}		Brunner et al. (1990)	M	
$C_{12}H_2Cl_8$	3.5×10^{-3}	7000	Paasivirta and Sinkkonen (2009)	V	
(PCB-198)	4.8×10^{-2}		Burkhard et al. (1985)	V	
[68194-17-2]	2.5×10^{-1}		Hilal et al. (2008)	Q	
	6.2×10^{-1}		Fang Lee (2007)	Q	264
	1.0		Fang Lee (2007)	Q	265
	6.4×10^{-2}		Dunnivant et al. (1992)	Q	
2,2',3,3',4,5,5',6'-octachlorobiphenyl	9.9×10^{-1}		Brunner et al. (1990)	M	
$C_{12}H_2Cl_8$	3.4×10^{-3}	7000	Paasivirta and Sinkkonen (2009)	V	
(PCB-199)	2.3×10^{-2}		Burkhard et al. (1985)	V	
[52663-75-9]	2.7×10^{-1}		Hilal et al. (2008)	Q	
	6.2×10^{-1}		Fang Lee (2007)	Q	264
	9.1×10^{-1}		Fang Lee (2007)	Q	265
	4.3×10^{-2}		Dunnivant et al. (1992)	Q	
2,2',3,3',4,5,6,6'-octachlorobiphenyl	7.6×10^{-3}	7200	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_2Cl_8$	1.5×10^{-2}		Burkhard et al. (1985)	V	
(PCB-200)	3.4×10^{-1}		Fang Lee (2007)	Q	264
[52663-73-7]	7.7×10^{-1}		Fang Lee (2007)	Q	265
	4.1×10^{-2}		Dunnivant et al. (1992)	Q	
2,2',3,3',4,5',6,6'-octachlorobiphenyl	1.0×10^{-2}	17000	Bamford et al. (2000)	M	
$C_{12}H_2Cl_8$	5.8×10^{-1}		Brunner et al. (1990)	M	
(PCB-201)	1.2×10^{-2}	7500	Paasivirta and Sinkkonen (2009)	V	
[40186-71-8]	1.5×10^{-2}		Burkhard et al. (1985)	V	
	2.9×10^{-1}		Hilal et al. (2008)	Q	
	3.7×10^{-1}		Fang Lee (2007)	Q	264
	1.1		Fang Lee (2007)	Q	265
	7.6×10^{-2}		Dunnivant et al. (1992)	Q	
2,2',3,3',5,5',6,6'-octachlorobiphenyl	5.5×10^{-1}		Brunner et al. (1990)	M	
$C_{12}H_2Cl_8$	5.0×10^{-3}	7300	Paasivirta and Sinkkonen (2009)	V	
(PCB-202)	2.6×10^{-2}		Mackay et al. (2006b)	V	
[2136-99-4]	2.6×10^{-2}		Mackay et al. (1992a)	V	
	2.7×10^{-2}		Shiu and Mackay (1986)	V	
	1.3×10^{-2}		Burkhard et al. (1985)	V	
	3.7×10^{-1}		Hilal et al. (2008)	Q	
	5.3×10^{-1}		Fang Lee (2007)	Q	264
	1.4		Fang Lee (2007)	Q	265
		4700	Kühne et al. (2005)	Q	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	4.4×10^{-2}		Dunnivant et al. (1992)	Q	
		5000	Kühne et al. (2005)	?	
2,2',3,4,4',5,5',6-octachlorobiphenyl	3.2×10^{-2}	7800	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_2Cl_8$	5.0×10^{-2}		Burkhard et al. (1985)	V	
(PCB-203)	3.1×10^{-1}		Fang Lee (2007)	Q	264
[52663-76-0]	7.7×10^{-1}		Fang Lee (2007)	Q	265
	7.0×10^{-2}		Dunnivant et al. (1992)	Q	
2,2',3,4,4',5,6,6'-octachlorobiphenyl	1.1×10^{-2}	7800	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_2Cl_8$	1.9×10^{-2}		Burkhard et al. (1985)	V	
(PCB-204)	1.7×10^{-1}		Fang Lee (2007)	Q	264
[74472-52-9]	4.5×10^{-1}		Fang Lee (2007)	Q	265
	2.9×10^{-2}		Dunnivant et al. (1992)	Q	
2,3,3',4,4',5,5',6-octachlorobiphenyl	4.4×10^{-3}	6800	Paasivirta and Sinkkonen (2009)	V	
$C_{12}H_2Cl_8$	2.1×10^{-1}		Burkhard et al. (1985)	V	
(PCB-205)	3.8×10^{-1}		Fang Lee (2007)	Q	264
[74472-53-0]	9.1×10^{-1}		Fang Lee (2007)	Q	265
	1.1×10^{-1}		Dunnivant et al. (1992)	Q	
2,2',3,3',4,4',5,5',6-nonachlorobiphenyl	2.1×10^{-3}	7300	Paasivirta and Sinkkonen (2009)	V	
$C_{12}HCl_9$	1.2		Mackay et al. (2006b)	V	
(PCB-206)	1.2×10^{-2}		Mackay et al. (1992a)	V	
[40186-72-9]	3.6×10^{-2}		Burkhard et al. (1985)	V	
	6.2×10^{-1}		Fang Lee (2007)	Q	264
	2.0		Fang Lee (2007)	Q	265
	1.1×10^{-1}		Dunnivant et al. (1992)	Q	
2,2',3,3',4,4',5,6,6'-nonachlorobiphenyl	1.8×10^{-3}	7500	Paasivirta and Sinkkonen (2009)	V	
$C_{12}HCl_9$	2.8×10^{-2}		Burkhard et al. (1985)	V	
(PCB-207)	3.3×10^{-1}		Fang Lee (2007)	Q	264
[52663-79-3]	1.4		Fang Lee (2007)	Q	265
	5.8×10^{-2}		Dunnivant et al. (1992)	Q	
2,2',3,3',4,5,5',6,6'-nonachlorobiphenyl	3.0×10^{-3}	7700	Paasivirta and Sinkkonen (2009)	V	
$C_{12}HCl_9$	3.1×10^{-2}		Burkhard et al. (1985)	V	
(PCB-208)	6.7×10^{-1}		Fang Lee (2007)	Q	264
[52663-77-1]	2.5		Fang Lee (2007)	Q	265
	5.9×10^{-2}		Dunnivant et al. (1992)	Q	
decachlorobiphenyl	6.7×10^{-4}	7200	Paasivirta and Sinkkonen (2009)	V	
$C_{12}Cl_{10}$			Mackay et al. (2006b)	V	256
(PCB-209)	4.8×10^{-2}		Mackay et al. (1992a)	V	
[2051-24-3]	4.8×10^{-2}		Shiu and Mackay (1986)	V	
	8.0×10^{-2}		Burkhard et al. (1985)	V	
	3.1×10^{-1}		Hilal et al. (2008)	Q	
	6.7×10^{-1}		Fang Lee (2007)	Q	264
	5.0		Fang Lee (2007)	Q	265
		6100	Kühne et al. (2005)	Q	
	8.8×10^{-2}		Dunnivant et al. (1992)	Q	
		7300	Kühne et al. (2005)	?	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
Oxygenated chlorocarbons (C, H, O, Cl)					
phosgene CCl_2O [75-44-5]	5.9×10^{-4} 6.8×10^{-4} 7.1×10^{-4}	3800 4200	De Bruyn et al. (1995a) Manogue and Pigford (1960) Yaws (1999)	M M ?	
dichloroacetaldehyde $C_2H_2Cl_2O$ [79-02-7]	1.2		HSDB (2015)	Q	38
chloroacetyl chloride $C_2H_2Cl_2O$ [79-04-9]	4.3×10^{-2}		HSDB (2015)	Q	38
chloral hydrate $C_2H_3Cl_3O_2$ [302-17-0]	2.4×10^{3}		HSDB (2015)	V	
chloroacetaldehyde C_2H_3ClO [107-20-0]	4.1×10^{-1}		HSDB (2015)	Q	38
2-chloroethanol C_2H_5ClO [107-07-3]	9.5×10^{1}		HSDB (2015)	Q	38
2-chloroethanol-d4 ClC_2D_4OH [117067-62-6]	5.0	8700	Hiatt (2013)	M	
1,1,1-trichloro-2-propanone $C_3H_3Cl_3O$ [918-00-3]	4.5		HSDB (2015)	Q	38
1,1-dichloro-2-propanone $C_3H_4Cl_2O$ (1,1-dichloroacetone) [513-88-2]	1.6		HSDB (2015)	Q	38
carbonochloridic acid, 2-chloroethyl ester $C_3H_4Cl_2O_2$ (chloroethyl chloroformate) [627-11-2]	9.0×10^{-3}		HSDB (2015)	Q	38
carbonochloridic acid, ethyl ester $C_3H_5ClO_2$ (ethyl chloroformate) [541-41-3]	3.2×10^{-3}		HSDB (2015)	Q	38
2-chloropropanoic acid $C_3H_5ClO_2$ [598-78-7]	3.8×10^{1}		HSDB (2015)	Q	38
2,3-dichloro-1-propanol $C_3H_6Cl_2O$ [616-23-9]	3.3×10^{3}		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1,3-dichloro-2-propanol	5.8		Meylan and Howard (1991)	V	
$C_3H_6Cl_2O$	1.6×10^{1}		HSDB (2015)	Q	38
[96-23-1]	2.6×10^{1}		Hilal et al. (2008)	Q	
	1.7×10^{1}		Meylan and Howard (1991)	Q	
3-chloro-1,2-propanediol	1.6×10^{2}		HSDB (2015)	Q	38
$C_3H_7ClO_2$					
[96-24-2]					
1-chloro-2-propanol	5.8		HSDB (2015)	Q	38
C_3H_7ClO					
[127-00-4]					
2-chloro-1-propanol	5.8		HSDB (2015)	Q	38
C_3H_7ClO					
[78-89-7]					
trichloroethanal	3.4×10^{3}	3500	Betterton and Hoffmann (1988)	M	192
CCl_3CHO		1700	Kühne et al. (2005)	Q	
(trichloroacetaldehyde; chloral)	1.7×10^{3}		Meylan and Howard (1991)	Q	
[75-87-6]		3500	Kühne et al. (2005)	?	
chloro-2-propanone	5.8×10^{-1}	5400	Sander et al. (2011)	L	
$CH_2ClCOCH_3$	5.8×10^{-1}	5400	Betterton (1991)	M	
(chloroacetone)	8.8×10^{-1}		Hilal et al. (2008)	Q	
[78-95-5]		4400	Kühne et al. (2005)	Q	
		5500	Kühne et al. (2005)	?	
chloroethanoic acid	1.1×10^{3}	9700	Sander et al. (2011)	L	
$CH_2ClCOOH$	1.1×10^{3}	9700	Bowden et al. (1998a)	M	
(chloroacetic acid)	8.8×10^{2}		Hilal et al. (2008)	Q	
[79-11-8]		8100	Kühne et al. (2005)	Q	
		9400	Kühne et al. (2005)	?	
dichloroethanoic acid	1.2×10^{3}	8000	Sander et al. (2011)	L	
$CHCl_2COOH$	1.2×10^{3}	8000	Bowden et al. (1998a)	M	
(dichloroacetic acid)	3.9×10^{2}		Hilal et al. (2008)	Q	
[79-43-6]		8400	Kühne et al. (2005)	Q	
		8000	Kühne et al. (2005)	?	
trichloroethanoic acid	7.3×10^{2}	8700	Sander et al. (2011)	L	
CCl_3COOH	7.3×10^{2}	8700	Bowden et al. (1998b)	M	
(trichloroacetic acid)	4.7		Hilal et al. (2008)	Q	
[76-03-9]		8800	Kühne et al. (2005)	Q	
		8600	Kühne et al. (2005)	?	
2,2-dichloro-propanoic acid	3.5×10^{8}		Mackay et al. (2006d)	V	
$C_3H_4Cl_2O_2$					
[75-99-0]					
trichloroacetylchloride	2.0×10^{-2}		Mirabel et al. (1996)	M	
CCl_3COCl	2.0×10^{-2}		De Bruyn et al. (1995a)	M	183
[76-02-8]	2.0×10^{-2}		George et al. (1994a)	M	
	3.4×10^{-1}		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
hexachloroacetone	1.0×10^{2}		Zhang et al. (2010)	Q	107, 108
C_3Cl_6O	9.0×10^{-4}		Zhang et al. (2010)	Q	107, 109
[116-16-5]	6.2×10^{-2}		Zhang et al. (2010)	Q	107, 110
	1.8×10^{-1}		Zhang et al. (2010)	Q	107, 111
(chloromethyl)-oxirane	3.3×10^{-1}		HSDB (2015)	V	
C_3H_5ClO	3.0×10^{-1}		Mackay et al. (2006c)	V	
(epichlorohydrin)	3.0×10^{-1}		Mackay et al. (1993)	V	
[106-89-8]	2.8×10^{-1}		Goldstein (1982)	X	181
	2.8×10^{-1}	3700	Goldstein (1982)	X	116
	9.9×10^{-2}		Hilal et al. (2008)	Q	
methyl chloroethanoate	4.1×10^{-2}		HSDB (2015)	V	
$C_3H_5ClO_2$	2.3×10^{-1}		Hilal et al. (2008)	Q	
[96-34-4]					
ethyl chloroethanoate	1.2×10^{-1}		HSDB (2015)	Q	38
$C_4H_7ClO_2$	1.1×10^{-1}		Hilal et al. (2008)	Q	
[105-39-5]					
chloroacetic acid anhydride	2.2		HSDB (2015)	Q	38
$C_4H_4Cl_2O_3$					
[541-88-8]					
carbonochloridic acid, 1-methylethyl ester	2.4×10^{-3}		HSDB (2015)	Q	38
$C_4H_7ClO_2$					
[108-23-6]					
chlorobutanol	4.5		HSDB (2015)	Q	38
C_4H_9ClO					
[1320-66-7]					
3-chloro-4-(dichloromethyl)-2-(5H)-furanone	1.5		HSDB (2015)	Q	38
$C_5H_3Cl_3O_2$					
[122551-89-7]					
3-chloro-4-(dichloromethyl)-5-hydroxy-2-(5H)-furanone	3.9×10^{4}		HSDB (2015)	Q	38
$C_5H_3Cl_3O_3$					
[77439-76-0]					
1,2,4-trichloro-2-methyl-3-pentanone	1.9		Zhang et al. (2010)	Q	107, 108
$C_6H_9Cl_3O$	1.9		Zhang et al. (2010)	Q	107, 109
[145556-04-3]	1.1×10^{2}		Zhang et al. (2010)	Q	107, 110
	4.1×10^{-1}		Zhang et al. (2010)	Q	107, 111
bis(2-chloroisopropyl) ether	3.0×10^{-2}		Zhang et al. (2010)	Q	107, 108
$C_6H_{12}Cl_2O$	3.3×10^{-4}		Zhang et al. (2010)	Q	107, 109
[39638-32-9]	9.5×10^{-1}		Zhang et al. (2010)	Q	107, 110
	1.6×10^{-3}		Zhang et al. (2010)	Q	107, 111

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
butyl 2,2,3,4,4-pentachloro-3-butenoate	3.9×10^{-1}		Zhang et al. (2010)	Q	107, 108
$C_8H_9Cl_5O_2$	3.9×10^{-2}		Zhang et al. (2010)	Q	107, 109
[75147-20-5]	7.9×10^{-2}		Zhang et al. (2010)	Q	107, 110
	1.8×10^{-1}		Zhang et al. (2010)	Q	107, 111
3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropane carbonyl chloride	1.6×10^{-2}		Zhang et al. (2010)	Q	107, 108
$C_8H_9Cl_3O$	9.7×10^{-3}		Zhang et al. (2010)	Q	107, 109
[52314-67-7]	1.6×10^{-1}		Zhang et al. (2010)	Q	107, 110
	8.8×10^{-1}		Zhang et al. (2010)	Q	107, 111
3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropane carboxylic acid	1.9×10^{1}		Zhang et al. (2010)	Q	107, 108
$C_8H_{10}Cl_2O_2$	9.0×10^{1}		Zhang et al. (2010)	Q	107, 109
[55701-05-8]	6.1×10^{4}		Zhang et al. (2010)	Q	107, 110
	6.1×10^{1}		Zhang et al. (2010)	Q	107, 111
hexanoic acid, 3,3-dimethyl-4,6,6,6-tetrachloro, methyl ester	6.7×10^{-1}		Zhang et al. (2010)	Q	107, 108
$C_9H_{14}Cl_4O_2$	2.7×10^{-1}		Zhang et al. (2010)	Q	107, 109
[64667-33-0]	6.1×10^{2}		Zhang et al. (2010)	Q	107, 110
	1.8×10^{-2}		Zhang et al. (2010)	Q	107, 111
methyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate	6.1×10^{-2}		Zhang et al. (2010)	Q	107, 108
$C_9H_{12}Cl_2O_2$	5.2×10^{-2}		Zhang et al. (2010)	Q	107, 109
[61898-95-1]	1.3×10^{-1}		Zhang et al. (2010)	Q	107, 110
	1.7×10^{-1}		Zhang et al. (2010)	Q	107, 111
oxychlordane	6.0×10^{-2}	4300	Paasivirta et al. (1999)	T	
$C_{10}H_4Cl_8O$	1.1×10^{2}		HSDB (2015)	Q	38
[27304-13-8]					
kepone	1.8×10^{2}		HSDB (2015)	V	
$C_{10}Cl_{10}O$	2.0×10^{2}		Mackay et al. (2006d)	V	
[143-50-0]					
(2-chloroethoxy)-ethene	1.1×10^{-3}		HSDB (2015)	V	
C_4H_7ClO	3.9×10^{-2}		Mackay et al. (2006c)	V	
(2-chloroethylvinylether)	3.9×10^{-2}		Mackay et al. (1993)	V	
[110-75-8]	1.1×10^{-3}		Goldstein (1982)	X	181
	3.1×10^{-2}	2500	Goldstein (1982)	X	116
	4.0×10^{-2}		Ryan et al. (1988)	C	
	2.3×10^{-3}		Hilal et al. (2008)	Q	
bis-(2-chloroethoxy)-methane	2.5		HSDB (2015)	V	
$C_5H_{10}Cl_2O_2$	2.2×10^{1}		Mackay et al. (2006c)	V	
[111-91-1]	2.2		Mackay et al. (1993)	V	
	8.8		Goldstein (1982)	X	181
	2.6×10^{1}	5500	Goldstein (1982)	X	116
	3.7×10^{1}		Ryan et al. (1988)	C	
	3.4		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
bis-(chloromethyl) ether	4.8×10^{-2}		Mackay et al. (2006c)	V	
$C_2H_4Cl_2O$	4.8×10^{-2}		Mackay et al. (1993)	V	
[542-88-1]	4.7×10^{-3}		Ryan et al. (1988)	C	
1,5-dichloro-3-oxapentane	3.4×10^{-1}		HSDB (2015)	V	
$C_4H_8Cl_2O$	3.5×10^{-1}		Mackay et al. (2006c)	V	
(bis-(2-chloroethyl)-ether)	3.4×10^{-2}		Lide and Frederikse (1995)	V	
[111-44-4]	3.5×10^{-1}		Mackay et al. (1993)	V	
	4.6×10^{-1}		Goldstein (1982)	X	181
	4.7×10^{-1}	4100	Goldstein (1982)	X	116
	3.7×10^{-1}		Harrison et al. (1993)	C	
	8.6		Ryan et al. (1988)	C	
	5.2×10^{-2}		Zhang et al. (2010)	Q	107, 108
	2.8×10^{-1}		Zhang et al. (2010)	Q	107, 109
	4.4×10^{-2}		Zhang et al. (2010)	Q	107, 110
	4.6×10^{-3}		Zhang et al. (2010)	Q	107, 111
	2.9×10^{-1}		Hilal et al. (2008)	Q	
		6000	Kühne et al. (2005)	Q	
		6000	Kühne et al. (2005)	?	
bis-(2-chloroisopropyl) ether	4.2×10^{-1}		Kawamoto and Urano (1989)	M	
$C_6H_{12}Cl_2O$	1.3×10^{-1}		HSDB (2015)	V	
(DCIP)	9.6×10^{-2}		Mackay et al. (2006c)	V	
[108-60-1]	9.6×10^{-2}		Mackay et al. (1993)	V	
	6.5×10^{-2}		Goldstein (1982)	X	181
	6.4×10^{-2}	2800	Goldstein (1982)	X	116
	8.6×10^{-3}		Ryan et al. (1988)	C	
	7.2×10^{-2}		Hilal et al. (2008)	Q	
1,2-bis(2-chloroethoxy)ethane	1.3×10^{1}		HSDB (2015)	V	
$C_6H_{12}Cl_2O_2$					
[112-26-5]					
2-hydroxychlorobenzene	1.5		Sheikheldin et al. (2001)	M	9
C_6H_5ClO	3.6	5700	Tabai et al. (1997)	M	89
(*o*-chlorophenol)	1.5		Mackay et al. (2006c)	V	
[95-57-8]	1.2		Fogg and Sangster (2003)	V	271
	1.8×10^{1}		Lide and Frederikse (1995)	V	
	1.5		Mackay et al. (1995)	V	
	1.5		Shiu et al. (1994)	V	
	8.8×10^{-1}		Abraham et al. (1994a)	R	
	1.2		Goldstein (1982)	X	181
	1.2	4600	Goldstein (1982)	X	116
	1.8×10^{1}		Howard (1989)	X	169
	2.1		Ryan et al. (1988)	C	
	4.2		Hilal et al. (2008)	Q	
		6200	Kühne et al. (2005)	Q	
	1.8×10^{2}		Nirmalakhandan et al. (1997)	Q	
	8.8×10^{-1}		HSDB (2015)	?	170
		5600	Kühne et al. (2005)	?	
	1.0		Chiou et al. (1980)	?	27

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
3-hydroxychlorobenzene	3.4×10^1	6400	Tabai et al. (1997)	M	89
C_6H_5ClO	4.9		Mackay et al. (2006c)	V	
(m-chlorophenol)	7.3		Fogg and Sangster (2003)	V	
[108-43-0]	1.8×10^1		Lide and Frederikse (1995)	V	
	4.9		Mackay et al. (1995)	V	
	4.9		Shiu et al. (1994)	V	
	2.9×10^1		Abraham et al. (1994a)	R	
	1.8×10^1		Howard (1989)	X	169
	1.6×10^1		Hilal et al. (2008)	Q	
		6200	Kühne et al. (2005)	Q	
	1.8×10^2		Nirmalakhandan et al. (1997)	Q	
	2.9×10^1		HSDB (2015)	?	170
		6100	Kühne et al. (2005)	?	
4-hydroxychlorobenzene	1.4×10^3	11000	Tabai et al. (1997)	M	89
C_6H_5ClO	1.6×10^1		HSDB (2015)	V	
(p-chlorophenol)	1.1×10^1		Mackay et al. (2006c)	V	
[106-48-9]	1.2×10^1		Fogg and Sangster (2003)	V	
	1.8×10^1		Lide and Frederikse (1995)	V	
	1.1×10^1		Mackay et al. (1995)	V	
	1.1×10^1		Shiu et al. (1994)	V	
	5.8×10^1		Abraham et al. (1994a)	R	
	1.8×10^1		Howard (1989)	X	169
	1.3×10^1		Hilal et al. (2008)	Q	
		6200	Kühne et al. (2005)	Q	
	1.8×10^2		Nirmalakhandan et al. (1997)	Q	
		6400	Kühne et al. (2005)	?	
	1.1×10^1		Chiou et al. (1980)	?	27
2,3-dichlorophenol $C_6H_4Cl_2O$ [576-24-9]	2.9		HSDB (2015)	V	
2,4-dichlorophenol	3.4		Sheikheldin et al. (2001)	M	9
$C_6H_4Cl_2O$	6.6	6800	Tabai et al. (1997)	M	89
[120-83-2]	2.8		HSDB (2015)	V	
	2.3		Mackay et al. (2006c)	V	
	2.3		Mackay et al. (1995)	V	
	2.3		Shiu et al. (1994)	V	
	9.0		Leuenberger et al. (1985)	V	167
	1.5		Goldstein (1982)	X	181
	1.5	4900	Goldstein (1982)	X	116
	1.8		Ryan et al. (1988)	C	
	3.2×10^1		Zhang et al. (2010)	Q	107, 108
	8.0		Zhang et al. (2010)	Q	107, 109
	1.1		Zhang et al. (2010)	Q	107, 110
	4.6		Zhang et al. (2010)	Q	107, 111
	8.2		Hilal et al. (2008)	Q	
		6300	Kühne et al. (2005)	Q	
		7400	Kühne et al. (2005)	?	
2,5-dichlorophenol $C_6H_4Cl_2O$ [583-78-8]	1.6		HSDB (2015)	V	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,6-dichlorophenol	3.7		HSDB (2015)	V	
$C_6H_4Cl_2O$	1.3		Mackay et al. (2006c)	V	
[87-65-0]	3.3		Mackay et al. (1995)	V	
3,4-dichlorophenol	2.1×10^{1}		HSDB (2015)	Q	38
$C_6H_4Cl_2O$					
[95-77-2]					
3,5-dichlorophenol	4.1×10^{1}		HSDB (2015)	V	
$C_6H_4Cl_2O$	4.6×10^{1}		Hilal et al. (2008)	Q	
[591-35-5]					
2,3,4-trichlorophenol	2.5		Mackay et al. (2006c)	V	
$C_6H_3Cl_3O$	2.5		Mackay et al. (1995)	V	
[15950-66-0]					
2,3,5-trichlorophenol	2.5		Mackay et al. (2006c)	V	
$C_6H_3Cl_3O$	2.5		Mackay et al. (1995)	V	
[933-78-8]					
2,4,5-trichlorophenol	6.2		HSDB (2015)	V	
$C_6H_3Cl_3O$	1.9		Mackay et al. (2006c)	V	
[95-95-4]	4.6×10^{-1}		Fogg and Sangster (2003)	V	
	1.9		Mackay et al. (1995)	V	
	7.6		Leuenberger et al. (1985)	V	167
	2.0×10^{1}		Hilal et al. (2008)	Q	
2,3,6-trichlorophenol	4.3×10^{1}		HSDB (2015)	Q	38
$C_6H_3Cl_3O$					
[933-75-5]					
2,4,6-trichlorophenol	2.0		Yoshida et al. (1987)	M	272, 9
$C_6H_3Cl_3O$	3.8		HSDB (2015)	V	
[88-06-2]	1.8		Mackay et al. (2006c)	V	
	1.6×10^{2}		Lide and Frederikse (1995)	V	
	1.8		Mackay et al. (1995)	V	
	7.6		Leuenberger et al. (1985)	V	167
	1.4	5000	Goldstein (1982)	X	116
	1.6×10^{1}		Howard (1989)	X	169
	2.4		Ryan et al. (1988)	C	
	4.3×10^{1}		Zhang et al. (2010)	Q	107, 108
	2.8×10^{-2}		Zhang et al. (2010)	Q	107, 109
	8.8×10^{-1}		Zhang et al. (2010)	Q	107, 110
	9.7×10^{-1}		Zhang et al. (2010)	Q	107, 111
	2.2		Hilal et al. (2008)	Q	
		6400	Kühne et al. (2005)	Q	
		6500	Kühne et al. (2005)	?	
3,4,5-trichlorophenol	4.3×10^{1}		HSDB (2015)	Q	38
$C_6H_3Cl_3O$					
[609-19-8]					
2,3,4,5-tetrachlorophenol	7.2		Mackay et al. (2006c)	V	
$C_6H_2Cl_4O$	7.2		Mackay et al. (1995)	V	
[4901-51-3]	2.8×10^{1}		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,3,4,6-tetrachlorophenol	7.6		HSDB (2015)	V	
$C_6H_2Cl_4O$	2.8		Mackay et al. (2006c)	V	
[58-90-2]	2.8		Mackay et al. (1995)	V	
	5.8×10^{1}		Zhang et al. (2010)	Q	107, 108
	4.1×10^{-2}		Zhang et al. (2010)	Q	107, 109
	3.9		Zhang et al. (2010)	Q	107, 110
	3.1		Zhang et al. (2010)	Q	107, 111
2,3,5,6-tetrachlorophenol	4.3		Mackay et al. (2006c)	V	
$C_6H_2Cl_4O$	4.3		Mackay et al. (1995)	V	
[935-95-5]	2.8×10^{1}		HSDB (2015)	Q	38
hydroxypentachlorobenzene	4.1×10^{2}		Hellmann (1987)	M	31
C_6HCl_5O	1.3×10^{1}		Mackay et al. (2006c)	V	
(pentachlorophenol)			Mackay et al. (2006d)	V	221
[87-86-5]	1.1×10^{-2}		Fogg and Sangster (2003)	V	
	1.3×10^{1}		Mackay et al. (1995)	V	
	2.3×10^{1}		Riederer (1990)	V	
	2.3×10^{1}		Suntio et al. (1988)	V	9
	1.1×10^{-1}	1300	Goldstein (1982)	X	116
	4.7		McCarty (1980)	X	145
	3.4		Ryan et al. (1988)	C	
	7.9×10^{1}		Zhang et al. (2010)	Q	107, 108
	6.0×10^{-2}		Zhang et al. (2010)	Q	107, 109
	6.5		Zhang et al. (2010)	Q	107, 110
	4.0		Zhang et al. (2010)	Q	107, 111
		7800	Kühne et al. (2005)	Q	
	7.9×10^{1}		Meylan and Howard (1991)	Q	
	1.8		Fogg and Sangster (2003)	E	
		7400	Kühne et al. (2005)	?	
3,4,5-trichloro-1,2-benzenediol	2.4×10^{2}		Lei et al. (1999)	V	
$C_6H_3Cl_3O_2$					
(3,4,5-trichlorocatechol)					
[56961-20-7]					
4,5-dichloro-1,2-benzenediol	1.3×10^{3}		Lei et al. (1999)	V	
$C_6H_4Cl_2O_2$					
(4,5-dichlorocatechol)					
[3428-24-8]					
3,4,5,6-tetrachloro-1,2-benzenediol	2.9×10^{1}		Lei et al. (1999)	V	
$C_6H_2Cl_4O_2$					
(tetrachlorocatechol)					
[1198-55-6]					
2,3,5,6-tetrachloro-*p*-benzoquinone	1.5×10^{3}		HSDB (2015)	V	
$C_6Cl_4O_2$					
(chloranil)					
[118-75-2]					
2-chloro-5-methylphenol	2.1×10^{1}		HSDB (2015)	Q	38
C_7H_7ClO					
[615-74-7]					

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
4-chloro-2-methylphenol	9.0		Woodrow et al. (1990)	V	
C_7H_7ClO	1.6×10^{1}		Hilal et al. (2008)	Q	
[1570-64-5]					
4-chloro-3-methylphenol	4.1		HSDB (2015)	V	
C_7H_7ClO	3.9×10^{1}		Abraham et al. (1994a)	R	
[59-50-7]	4.0		Ryan et al. (1988)	C	
	2.2×10^{1}		Zhang et al. (2010)	Q	107, 108
	1.3×10^{1}		Zhang et al. (2010)	Q	107, 109
	2.8×10^{1}		Zhang et al. (2010)	Q	107, 110
	9.2×10^{1}		Zhang et al. (2010)	Q	107, 111
	1.2×10^{1}		Hilal et al. (2008)	Q	
	1.3×10^{2}		Nirmalakhandan et al. (1997)	Q	
1-chloro-2-methoxybenzene	1.0×10^{-1}		Pfeifer et al. (2001)	M	273
C_7H_7ClO					
(2-chloroanisole)					
[766-51-8]					
1-chloro-3-methoxybenzene	4.5×10^{-2}		Pfeifer et al. (2001)	M	273
C_7H_7ClO					
(3-chloroanisole)					
[2845-89-8]					
1-chloro-4-methoxybenzene	5.8×10^{-2}		Pfeifer et al. (2001)	M	273
C_7H_7ClO					
(4-chloroanisole)					
[623-12-1]					
1,2-dichloro-3-methoxybenzene	2.2×10^{-2}		Pfeifer et al. (2001)	M	273
$C_7H_6Cl_2O$					
(2,3-dichloroanisole)					
[1984-59-4]					
1,5-dichloro-2-methoxybenzene	1.2×10^{-2}		Pfeifer et al. (2001)	M	273
$C_7H_6Cl_2O$					
(2,4-dichloroanisole)					
[553-82-2]					
1,4-dichloro-2-methoxybenzene	2.1×10^{-2}		Pfeifer et al. (2001)	M	273
$C_7H_6Cl_2O$	5.7×10^{-2}		Zhang et al. (2010)	Q	107, 108
(2,5-dichloroanisole)	1.4×10^{-2}		Zhang et al. (2010)	Q	107, 109
[1984-58-3]	1.4×10^{-1}		Zhang et al. (2010)	Q	107, 110
	4.8×10^{-2}		Zhang et al. (2010)	Q	107, 111
1,3-dichloro-2-methoxybenzene	8.8×10^{-3}		Pfeifer et al. (2001)	M	273
$C_7H_6Cl_2O$					
(2,6-dichloroanisole)					
[1984-65-2]					
1,2-dichloro-4-methoxybenzene	9.2×10^{-3}		Pfeifer et al. (2001)	M	273
$C_7H_6Cl_2O$					
(3,4-dichloroanisole)					
[36404-30-5]					

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1,3-dichloro-5-methoxybenzene $C_7H_6Cl_2O$ (3,5-dichloroanisole) [33719-74-3]	2.3×10^{-3}		Pfeifer et al. (2001)	M	273
1,2,3-trichloro-4-methoxybenzene $C_7H_5Cl_3O$ (2,3,4-trichloroanisole) [54135-80-7]	1.3×10^{-2}		Pfeifer et al. (2001)	M	273
1,2,5-trichloro-3-methoxybenzene $C_7H_5Cl_3O$ (2,3,5-trichloroanisole) [54135-81-8]	7.6×10^{-3}		Pfeifer et al. (2001)	M	273
1,2,4-trichloro-3-methoxybenzene $C_7H_5Cl_3O$ (2,3,6-trichloroanisole) [50375-10-5]	1.1×10^{-2} 9.8×10^{-3} 1.8×10^{-2} 7.6×10^{-2}	4500	Diaz et al. (2005) Pfeifer et al. (2001) Hilal et al. (2008) Meylan and Howard (1991)	M M Q Q	 273
1,2,4-trichloro-5-methoxybenzene $C_7H_5Cl_3O$ (2,4,5-trichloroanisole) [6130-75-2]	1.1×10^{-2}		Pfeifer et al. (2001)	M	273
1,3,5-trichloro-2-methoxybenzene $C_7H_5Cl_3O$ (2,4,6-trichloroanisole) [87-40-1]	4.4×10^{-3} 4.6×10^{-3}	640	Diaz et al. (2005) Pfeifer et al. (2001)	M M	 273
1,2,3-trichloro-5-methoxybenzene $C_7H_5Cl_3O$ (3,4,5-trichloroanisole) [54135-82-9]	4.4×10^{-3}		Pfeifer et al. (2001)	M	273
1,2,3,4-tetrachloro-5-methoxybenzene $C_7H_4Cl_4O$ (2,3,4,5-tetrachloroanisole) [938-86-3]	6.5×10^{-3}		Pfeifer et al. (2001)	M	273
1,2,3,5-tetrachloro-4-methoxybenzene $C_7H_4Cl_4O$ (2,3,4,6-tetrachloroanisole) [938-22-7]	3.1×10^{-3}		Pfeifer et al. (2001)	M	273
1,2,4,5-tetrachloro-3-methoxybenzene $C_7H_4Cl_4O$ (2,3,5,6-tetrachloroanisole) [6936-40-9]	3.2×10^{-3}		Pfeifer et al. (2001)	M	273
pentachloromethoxybenzene $C_7H_3Cl_5O$ (pentachloroanisole) [1825-21-4]	2.1×10^{-3} 5.1×10^{-3}		Pfeifer et al. (2001) HSDB (2015)	M Q	273 38

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
4,5-dichloro-2-methoxyphenol	5.2		Mackay et al. (2006c)	V	
$C_7H_6Cl_2O_2$	2.3		Lei et al. (1999)	V	
(4,5-dichloroguaiacol)					
[2460-49-3]					
3,4,5-trichloro-2-methoxyphenol			Mackay et al. (2006c)	V	171
$C_7H_5Cl_3O_2$	8.3		Lei et al. (1999)	V	
(3,4,5-trichloroguaiacol)					
[57057-83-7]					
4,5,6-trichloro-2-methoxyphenol	7.4		Mackay et al. (2006c)	V	
$C_7H_5Cl_3O_2$	7.1		Lei et al. (1999)	V	
(4,5,6-trichloroguaiacol)					
[2668-24-8]					
2,3,4,5-tetrachloro-6-methoxyphenol	6.2		Mackay et al. (2006c)	V	
$C_7H_4Cl_4O_2$	6.7		Lei et al. (1999)	V	
(tetrachloroguaiacol)					
[2539-17-5]					
3-chlorobenzoic acid	2.5×10^{2}		HSDB (2015)	Q	216
$C_7H_5ClO_2$					
[535-80-8]					
1,2,3-trichloro-4,5-dimethoxybenzene	2.7×10^{-1}		Lei et al. (1999)	V	
$C_8H_7Cl_3O_2$					
(3,4,5-trichloroveratrole)					
[16766-29-3]					
1,2,3,4-tetrachloro-5,6-dimethoxybenzene	9.1×10^{-2}		Lei et al. (1999)	V	
$C_8H_6Cl_4O_2$	1.7		Zhang et al. (2010)	Q	107, 108
(tetrachloroveratrole)	2.0		Zhang et al. (2010)	Q	107, 109
[944-61-6]	2.6		Zhang et al. (2010)	Q	107, 110
	7.5×10^{-1}		Zhang et al. (2010)	Q	107, 111
3-chloro-2,6-dimethoxyphenol	4.2×10^{1}		Lei et al. (1999)	V	
$C_8H_9ClO_3$					
(3-chlorosyringol)					
[18113-22-9]					
3,5-dichloro-2,6-dimethoxyphenol	1.4×10^{1}		Lei et al. (1999)	V	
$C_8H_8Cl_2O_3$					
(3,5-dichlorosyringol)					
[78782-46-4]					
3,5-dichloro-2-hydroxybenzoic acid	1.3×10^{3}		Zhang et al. (2010)	Q	107, 108
$C_7H_4Cl_2O_3$	4.3×10^{2}		Zhang et al. (2010)	Q	107, 109
[320-72-9]	7.5×10^{4}		Zhang et al. (2010)	Q	107, 110
	2.2×10^{2}		Zhang et al. (2010)	Q	107, 111
3,6-dichloro-2-hydroxybenzoic acid	1.3×10^{3}		Zhang et al. (2010)	Q	107, 108
$C_7H_4Cl_2O_3$	3.4×10^{3}		Zhang et al. (2010)	Q	107, 109
[3401-80-7]	1.1×10^{1}		Zhang et al. (2010)	Q	107, 110
	2.2×10^{2}		Zhang et al. (2010)	Q	107, 111

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
5-chloro-2-methoxybenzoic acid	2.1×10^{3}		Zhang et al. (2010)	Q	107, 108
$C_8H_7ClO_3$	3.8×10^{1}		Zhang et al. (2010)	Q	107, 109
[3438-16-2]	9.5×10^{3}		Zhang et al. (2010)	Q	107, 110
	6.0×10^{3}		Zhang et al. (2010)	Q	107, 111
2-chloroacetophenone	2.8		HSDB (2015)	Q	38
C_8H_7ClO					
[532-27-4]					
2,2,2',4',5'-pentachloroacetophenone	2.0×10^{1}		Zhang et al. (2010)	Q	107, 108
$C_8H_3Cl_5O$	5.7		Zhang et al. (2010)	Q	107, 109
[1203-86-7]	1.0		Zhang et al. (2010)	Q	107, 110
	6.0		Zhang et al. (2010)	Q	107, 111
tetrachloroterephthaloyl chloride	1.0×10^{1}		Zhang et al. (2010)	Q	107, 108
$C_8Cl_6O_2$	1.9×10^{1}		Zhang et al. (2010)	Q	107, 109
[719-32-4]	3.4×10^{-2}		Zhang et al. (2010)	Q	107, 110
	1.3×10^{3}		Zhang et al. (2010)	Q	107, 111
chloroxylenol	1.9×10^{1}		HSDB (2015)	Q	38
C_8H_9ClO	1.9×10^{1}		Zhang et al. (2010)	Q	107, 108
[88-04-0]	1.5×10^{1}		Zhang et al. (2010)	Q	107, 109
	2.0×10^{1}		Zhang et al. (2010)	Q	107, 110
	5.1×10^{1}		Zhang et al. (2010)	Q	107, 111
4,5,6,7-tetrachloro-1,3-isobenzofurandione	5.2		Zhang et al. (2010)	Q	107, 108
$C_8Cl_4O_3$	1.8×10^{4}		Zhang et al. (2010)	Q	107, 109
[117-08-8]	1.9×10^{2}		Zhang et al. (2010)	Q	107, 110
	4.3×10^{1}		Zhang et al. (2010)	Q	107, 111
3,4,5-trichloro-2,6-dimethoxyphenol	4.5×10^{1}		Lei et al. (1999)	V	
$C_8H_7Cl_3O_3$					
(trichlorosyringol)					
[2539-26-6]					
4,5,6,7-tetrachlorophthalide	1.8×10^{1}		Kawamoto and Urano (1989)	M	
$C_8H_2Cl_4O_2$					
[27355-22-2]					
dicamba	2.3×10^{4}		HSDB (2015)	V	
$C_8H_6Cl_2O_3$	4.5×10^{3}		Mackay et al. (2006d)	V	
(banvel)	8.3×10^{3}		Suntio et al. (1988)	V	9
[1918-00-9]	2.2×10^{4}		Armbrust (2000)	C	
(2,4-dichlorophenoxy)-ethanoic acid	1.4×10^{-1}		Rice et al. (1997b)	M	274, 9
$C_8H_6Cl_2O_3$	1.2		Rice et al. (1997b)	M	274, 9
((2,4-dichlorophenoxy)-acetic acid; 2,4-D)	5.0×10^{4}		Mackay et al. (2006c)	V	
[94-75-7]	2.3×10^{4}		Mackay et al. (2006d)	V	
	4.0×10^{3}		Mackay et al. (2006d)	V	
	2.9×10^{2}		Mackay et al. (1995)	V	
	1.8		Riederer (1990)	V	
	1.8		Suntio et al. (1988)	V	9
	7.2×10^{4}		Howard (1991)	X	164
	9.7×10^{2}		Howard (1991)	X	164

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	5.5×10^{6}		Armbrust (2000)	C	
2,4,5-trichlorophenoxyethanoic acid $C_8H_5Cl_3O_3$ (2,4,5-T) [93-76-5]	1.7×10^{2} 1.7×10^{2} 1.7×10^{2} 8.4×10^{5}		Mackay et al. (2006d) Riederer (1990) Suntio et al. (1988) MacBean (2012a)	V V V ?	 9
1,4-dichloro-2,5-dimethoxybenzene $C_8H_8Cl_2O_2$ [2675-77-6]	9.9×10^{-2}		HSDB (2015) Mackay et al. (2006d)	V V	 221
2,3,6-trichlorophenylacetic acid $C_8H_5Cl_3O_2$ [85-34-7]	8.3×10^{-1} 5.5×10^{2}		Mackay et al. (2006d) HSDB (2015)	V Q	 38
4-methoxy-benzoyl chloride $C_8H_7ClO_2$ (p-anisoyl chloride) [100-07-2]	1.3		HSDB (2015)	Q	38
isobenzan $C_9H_4Cl_8O$ [297-78-9]	1.7×10^{2}		HSDB (2015)	Q	38
2-chloro-4-hydroxy-3,5-dimethoxybenzaldehyde $C_9H_9ClO_4$ (2-chlorosyringaldehyde) [76341-69-0]	9.1×10^{1}		Lei et al. (1999)	V	
2,6-dichloro-4-hydroxy-3,5-dimethoxybenzaldehyde $C_9H_8Cl_2O_4$ (2,6-dichlorosyringaldehyde) [76330-06-8]	2.7×10^{2}		Lei et al. (1999)	V	
methyl 2,4-dichlorophenoxyethanoate $C_9H_8Cl_2O_3$ [1928-38-7]	1.8		Hilal et al. (2008)	Q	
(2-methyl-4-chlorophenoxy)acetic acid $C_9H_9ClO_3$ (MCPA) [94-74-6]	$>9.9\times10^{1}$ 4.0×10^{4} 9.9×10^{3}		Mabury and Crosby (1996) Mackay et al. (2006d) Woodrow et al. (1990)	M V V	
α-(2,4-dichlorophenoxy)propionic acid $C_9H_8Cl_2O_3$ (dichloroprop) [120-36-5]	3.7×10^{3}		Mackay et al. (2006d)	V	
(R)-2-(2,4-dichlorophenoxy)propanoic acid $C_9H_8Cl_2O_3$ (dichlorprop-p) [15165-67-0]	4.0×10^{4}		Mackay et al. (2006d)	V	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2-(2,4,5-trichlorophenoxy)propanoic acid $C_9H_7Cl_3O_3$ [93-72-1]	3.9×10^{4}		Mackay et al. (2006d)	V	
tridiphane $C_{10}H_7Cl_5O$ [58138-08-2]	1.9×10^{-1}		MacBean (2012a)	?	
plifenat $C_{10}H_7O_2Cl_5$ [21757-82-4]	1.1×10^{4}		MacBean (2012a)	?	
ethyl 2,4-dichlorophenoxyethanoate $C_{10}H_{10}Cl_2O_3$ [533-23-3]	1.2		Hilal et al. (2008)	Q	
mecoprop $C_{10}H_{11}ClO_3$ [7085-19-0]	 9.0×10^{3}		Mackay et al. (2006d) Armbrust (2000)	V C	221
(R)-2-(4-chloro-2-methylphenoxy)propanoic acid $C_{10}H_{11}ClO_3$ (mecoprop-p) [16484-77-8]	1.0×10^{4}		Mackay et al. (2006d)	V	
dacthal $C_{10}H_6Cl_4O_4$ (DCPA) [1861-32-1]	4.4 4.5		Muir et al. (2004) HSDB (2015)	L V	144
4-(2,4-dichlorophenoxy)-butanoic acid $C_{10}H_{10}Cl_2O_3$ [94-82-6]	4.3×10^{3}		HSDB (2015)	Q	38
dichlone $C_{10}H_4Cl_2O_2$ [117-80-6]	9.7×10^{3}		HSDB (2015)	Q	38
(2,4-dichlorophenoxy)-acetic acid 1-methylethyl ester $C_{11}H_{12}Cl_2O_3$ [94-11-1]	4.5		HSDB (2015)	V	
4-(4-chloro-2-methylphenoxy)butanoic acid $C_{11}H_{13}ClO_3$ (MCPB) [94-81-5]	3.1×10^{3}		Mackay et al. (2006d)	V	
triclosan $C_{12}H_7Cl_3O_2$ [3380-34-5]	4.7×10^{2} 2.0×10^{3} 5.7×10^{1} 1.4×10^{3} 8.2×10^{2}		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q Q	38 107, 108 107, 109 107, 110 107, 111

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
monobutyl tetrachlorophthalate	2.0×10^{4}		Zhang et al. (2010)	Q	107, 108
$C_{12}H_{10}Cl_4O_4$	7.5×10^{2}		Zhang et al. (2010)	Q	107, 109
[24261-19-6]	5.1×10^{4}		Zhang et al. (2010)	Q	107, 110
	5.1×10^{4}		Zhang et al. (2010)	Q	107, 111
(2,4-dichlorophenoxy)-acetic acid butyl ester $C_{12}H_{14}Cl_2O_3$ [94-80-4]	2.0×10^{1}		HSDB (2015)	V	
sucralose $C_{12}H_{19}Cl_3O_8$ [56038-13-2]	2.5×10^{13}		HSDB (2015)	Q	38
1,2,3,4,6-pentachlorodibenzo-*p*-dioxin $C_{12}H_3Cl_5O_2$ [36088-22-9]	4.5		HSDB (2015)	V	
endrin aldehyde $C_{12}H_8Cl_6O$ [7421-93-4]	2.3		HSDB (2015)	V	
clorophene $C_{13}H_{11}ClO$ (4-chloro-2-benzylphenol) [120-32-1]	3.7×10^{3}		HSDB (2015)	V	
(4-chlorophenyl)phenylmethanone $C_{13}H_9ClO$ (4-chlorobenzophenone) [134-85-0]	7.0		HSDB (2015)	Q	38
1-(4-chlorophenyl)-4,4-dimethyl-3-pentanone	1.1		Zhang et al. (2010)	Q	107, 108
$C_{13}H_{17}ClO$	7.2×10^{-1}		Zhang et al. (2010)	Q	107, 109
[66346-01-8]	4.2		Zhang et al. (2010)	Q	107, 110
	3.9×10^{-1}		Zhang et al. (2010)	Q	107, 111
hexachlorophene	1.8×10^{7}		HSDB (2015)	Q	38
$C_{13}H_6Cl_6O_2$	1.1×10^{7}		Zhang et al. (2010)	Q	107, 108
[70-30-4]	2.5×10^{5}		Zhang et al. (2010)	Q	107, 109
	1.2×10^{4}		Zhang et al. (2010)	Q	107, 110
	6.5×10^{5}		Zhang et al. (2010)	Q	107, 111
2,4'-dichlorobenzophenone	9.2		Zhang et al. (2010)	Q	107, 108
$C_{13}H_8Cl_2O$	6.9		Zhang et al. (2010)	Q	107, 109
[85-29-0]	4.3×10^{1}		Zhang et al. (2010)	Q	107, 110
	6.1×10^{1}		Zhang et al. (2010)	Q	107, 111
1-(4-chlorophenyl)-4,4-dimethylpent-1-en-3-one	4.8		Zhang et al. (2010)	Q	107, 108
$C_{13}H_{15}ClO$	2.2		Zhang et al. (2010)	Q	107, 109
[1577-03-3]	8.2		Zhang et al. (2010)	Q	107, 110
	1.5		Zhang et al. (2010)	Q	107, 111

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
dichlorophen	8.2×10^{6}		HSDB (2015)	V	
$C_{13}H_{10}Cl_2O_2$	8.5×10^{6}		Mackay et al. (2006d)	V	
[97-23-4]					
2-chloro-9,10-anthracenedione	4.2×10^{3}		Zhang et al. (2010)	Q	107, 108
$C_{14}H_7ClO_2$	6.7×10^{2}		Zhang et al. (2010)	Q	107, 109
[131-09-9]	1.4×10^{2}		Zhang et al. (2010)	Q	107, 110
	3.3×10^{4}		Zhang et al. (2010)	Q	107, 111
dicofol	4.1×10^{1}		HSDB (2015)	V	
$C_{14}H_9Cl_5O$	1.8×10^{4}		Zhang et al. (2010)	Q	107, 108
[115-32-2]	3.1×10^{2}		Zhang et al. (2010)	Q	107, 109
	9.2×10^{1}		Zhang et al. (2010)	Q	107, 110
	3.2×10^{3}		Zhang et al. (2010)	Q	107, 111
bis(2,4-dichlorobenzoyl)peroxide	9.2		Zhang et al. (2010)	Q	107, 108
$C_{14}H_6Cl_4O_4$	1.4×10^{2}		Zhang et al. (2010)	Q	107, 109
[133-14-2]	1.6×10^{3}		Zhang et al. (2010)	Q	107, 110
	3.5×10^{3}		Zhang et al. (2010)	Q	107, 111
dipropyl tetrachlorophthalate	4.7×10^{1}		Zhang et al. (2010)	Q	107, 108
$C_{14}H_{14}Cl_4O_4$	3.0×10^{1}		Zhang et al. (2010)	Q	107, 109
[6928-67-2]	1.0×10^{1}		Zhang et al. (2010)	Q	107, 110
	2.8×10^{1}		Zhang et al. (2010)	Q	107, 111
2-(4-chlorobenzoyl)benzoic acid	3.4×10^{5}		Zhang et al. (2010)	Q	107, 108
$C_{14}H_9ClO_3$	3.6×10^{4}		Zhang et al. (2010)	Q	107, 109
[85-56-3]	7.9×10^{7}		Zhang et al. (2010)	Q	107, 110
	2.1×10^{6}		Zhang et al. (2010)	Q	107, 111
(2,4,5-trichlorophenoxy)acetic acid butoxyethanol ester $C_{14}H_{17}Cl_3O_4$ [2545-59-7]	1.2×10^{2}		HSDB (2015)	Q	38
(2,4-dichlorophenoxy)-acetic acid, 2-butoxyethyl ester $C_{14}H_{18}Cl_2O_4$ [1929-73-3]	6.2×10^{1}		HSDB (2015)	V	
1-chloro-9,10-anthracenedione $C_{14}H_7ClO_2$ (1-chloroanthraquinone) [82-44-0]	4.2×10^{3}		HSDB (2015)	Q	38
4,4'-(1-methylethylidene)bis(2,6-dichlorophenol) $C_{15}H_{12}Cl_4O_2$ (2,2',6,6'-tetrachlorobisphenol A) [79-95-8]	3.5×10^{6}		HSDB (2015)	Q	182
methoxychlor	4.9×10^{1}		Altschuh et al. (1999)	M	
$C_{16}H_{15}Cl_3O_2$	1.0		Mackay et al. (2006d)	V	
[72-43-5]	2.8		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
diclofop-methyl	5.0		Mackay et al. (2006d)	V	
$C_{16}H_{14}Cl_2O_4$	2.6×10^{2}		HSDB (2015)	Q	38
[51338-27-3]					
chlorobenzilate	1.4×10^{2}		HSDB (2015)	V	
$C_{16}H_{14}Cl_2O_3$	2.6×10^{2}		MacBean (2012a)	?	
[510-15-6]					
(2,4-dichlorophenoxy)-acetic acid 2-ethylhexyl ester	5.5×10^{-1}		MacBean (2012b)	X	137
$C_{16}H_{22}Cl_2O_3$					
[1928-43-4]					
(2,4-dichlorophenoxy)-acetic acid, isooctyl ester	1.7×10^{-1}		HSDB (2015)	Q	38
$C_{16}H_{22}Cl_2O_3$					
[25168-26-7]					
chloropropylate	1.2×10^{3}		HSDB (2015)	V	
$C_{17}H_{16}Cl_2O_3$	1.0×10^{2}		MacBean (2012a)	?	
[5836-10-2]					
1-(2-(2-chloroethoxy)ethoxy)-4-(1,1,3,3-tetramethylbutyl)benzene	5.3×10^{-1}		Zhang et al. (2010)	Q	107, 108
$C_{18}H_{29}ClO_2$	1.6		Zhang et al. (2010)	Q	107, 109
[65925-28-2]	3.8×10^{-1}		Zhang et al. (2010)	Q	107, 110
	8.4×10^{-2}		Zhang et al. (2010)	Q	107, 111
fenofibrate	2.2×10^{3}		HSDB (2015)	Q	38
$C_{20}H_{21}ClO_4$					
[49562-28-9]					
spirodiclofen	1.7×10^{2}		HSDB (2015)	V	
$C_{21}H_{24}Cl_2O_4$					
[148477-71-8]					
permethrin	4.1		HSDB (2015)	V	
$C_{21}H_{20}Cl_2O_3$	9.0		Mackay et al. (2006d)	V	
[52645-53-1]					
chlormadinone acetate	1.8×10^{4}		HSDB (2015)	Q	38
$C_{23}H_{29}ClO_4$					
[302-22-7]					
3,4,5,6-tetrachlorophthalic acid bis(2-ethylhexyl) ester	2.8		Zhang et al. (2010)	Q	107, 108
$C_{24}H_{34}Cl_4O_4$	2.3×10^{1}		Zhang et al. (2010)	Q	107, 109
[34832-88-7]	1.0×10^{4}		Zhang et al. (2010)	Q	107, 110
	3.5		Zhang et al. (2010)	Q	107, 111
endosulfan alcohol	7.7×10^{3}		Zhang et al. (2010)	Q	107, 108
$C_9H_8Cl_6O_2$	3.0×10^{6}		Zhang et al. (2010)	Q	107, 109
[2157-19-9]	1.3×10^{5}		Zhang et al. (2010)	Q	107, 110
	1.8×10^{5}		Zhang et al. (2010)	Q	107, 111

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
chlorendic anhydride	1.1×10^{2}		Zhang et al. (2010)	Q	107, 108
$C_9H_2Cl_6O_3$	3.1×10^{4}		Zhang et al. (2010)	Q	107, 109
[115-27-5]	1.5×10^{4}		Zhang et al. (2010)	Q	107, 110
	3.9×10^{7}		Zhang et al. (2010)	Q	107, 111
1,4,5,6,7,7-hexachloro-bicyclo[2.2.1]hept-5-ene-2,3-dicarboxylic acid	3.3×10^{8}		HSDB (2015)	Q	38
$C_9H_4Cl_6O_4$	3.3×10^{8}		Zhang et al. (2010)	Q	107, 108
[115-28-6]	3.1×10^{9}		Zhang et al. (2010)	Q	107, 109
	3.9×10^{9}		Zhang et al. (2010)	Q	107, 110
	7.3×10^{7}		Zhang et al. (2010)	Q	107, 111
heptachlorepoxide	4.8×10^{-1}		Shen and Wania (2005)	L	143
$C_{10}H_5Cl_7O$	5.9×10^{-1}		Shen and Wania (2005)	L	144
[1024-57-3]	5.0×10^{-1}	5200	Cetin et al. (2006)	M	
	4.7×10^{-1}		Altschuh et al. (1999)	M	
	3.1×10^{-1}		Warner et al. (1980)	M	
	5.4×10^{-1}		Hilal et al. (2008)	C	
	1.3×10^{1}		Ryan et al. (1988)	C	
	3.1×10^{-1}		Shen (1982)	C	
	7.3		Hilal et al. (2008)	Q	
dieldrin	1.0		Shen and Wania (2005)	L	143
$C_{12}H_8OCl_6$	9.1×10^{-1}		Shen and Wania (2005)	L	144
[60-57-1]	9.1×10^{-1}		Mackay and Shiu (1981)	L	
	9.2×10^{-1}	5800	Cetin et al. (2006)	M	
	9.8×10^{-1}		Altschuh et al. (1999)	M	
	3.4×10^{-1}		Slater and Spedding (1981)	M	9
	1.7×10^{-1}		Warner et al. (1980)	M	
	8.9×10^{-1}		Mackay et al. (2006d)	V	
	8.9×10^{-1}		Suntio et al. (1988)	V	9
	4.9×10^{1}		Mackay and Leinonen (1975)	V	
	1.7×10^{-1}		Hilal et al. (2008)	C	
	5.0×10^{1}		Suntio et al. (1988)	C	9
	2.2×10^{1}		Suntio et al. (1988)	C	255
	9.8×10^{-1}		Suntio et al. (1988)	C	255
	1.7×10^{-1}		Suntio et al. (1988)	C	
	4.7×10^{-2}		Suntio et al. (1988)	C	
	1.3		Ryan et al. (1988)	C	
	1.7×10^{-1}		Shen (1982)	C	
	1.1		Hilal et al. (2008)	Q	
	1.2		MacBean (2012a)	?	
	5.7×10^{1}		Brimblecombe (1986)	?	28
endrin	1.6		Shen and Wania (2005)	L	143
$C_{12}H_8Cl_6O$	9.1×10^{-1}		Shen and Wania (2005)	L	144
[72-20-8]	1.8	4600	Cetin et al. (2006)	M	
	1.6		Altschuh et al. (1999)	M	
	3.0×10^{1}		Mackay et al. (2006d)	V	
	3.0×10^{1}		Suntio et al. (1988)	V	9
	5.6×10^{3}		Suntio et al. (1988)	C	
	2.4×10^{1}		Ryan et al. (1988)	C	
	1.1		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1,4,5,6,7,7-hexachlorobicyclo[2.2.1]hept-5-ene-2,3-dicarboxylic acid, dibutyl ester	5.8×10^{2}		Zhang et al. (2010)	Q	107, 108
$C_{17}H_{20}Cl_6O_4$	1.4×10^{2}		Zhang et al. (2010)	Q	107, 109
[1770-80-5]	4.6×10^{3}		Zhang et al. (2010)	Q	107, 110
	8.0×10^{2}		Zhang et al. (2010)	Q	107, 111
di-2-ethylhexyl chlorendate	6.0×10^{1}		Zhang et al. (2010)	Q	107, 108
$C_{25}H_{36}Cl_6O_4$	2.1×10^{2}		Zhang et al. (2010)	Q	107, 109
[4827-55-8]	5.2×10^{3}		Zhang et al. (2010)	Q	107, 110
	1.6×10^{2}		Zhang et al. (2010)	Q	107, 111
Polychlorinated diphenyl ethers (PCDEs)					
2-chlorodiphenyl ether $C_{12}H_9ClO$ (PCDE-1) [2689-07-8]	3.1×10^{-2}		Kurz and Ballschmiter (1999)	V	
3-chlorodiphenyl ether	1.2×10^{-1}		Kurz and Ballschmiter (1999)	V	
$C_{12}H_9ClO$	2.7×10^{-2}		Hilal et al. (2008)	Q	
(PCDE-2) [6452-49-9]					
4-chlorodiphenyl ether	1.1×10^{-1}		Kurz and Ballschmiter (1999)	V	
$C_{12}H_9ClO$	4.5×10^{-2}		Mackay et al. (1993)	V	
(PCDE-3)	9.0×10^{-2}		Howard and Meylan (1997)	X	181
[7005-72-3]	4.0×10^{-2}		Ryan et al. (1988)	C	
	3.1×10^{-2}		Hilal et al. (2008)	Q	
2,3-dichlorodiphenyl ether $C_{12}H_8Cl_2O$ (PCDE-5)	2.4×10^{-1}		Kurz and Ballschmiter (1999)	V	
2,4-dichlorodiphenyl ether $C_{12}H_8Cl_2O$ (PCDE-7) [51892-26-3]	1.9×10^{-1}		Kurz and Ballschmiter (1999)	V	
2,4'-dichlorodiphenyl ether $C_{12}H_8Cl_2O$ (PCDE-8)	3.2×10^{-2}		Kurz and Ballschmiter (1999)	V	
2,5-dichlorodiphenyl ether $C_{12}H_8Cl_2O$ (PCDE-9)	7.9×10^{-2}		Kurz and Ballschmiter (1999)	V	
2,6-dichlorodiphenyl ether $C_{12}H_8Cl_2O$ (PCDE-10) [28419-69-4]	5.0×10^{-2}		Kurz and Ballschmiter (1999)	V	
3,4-dichlorodiphenyl ether $C_{12}H_8Cl_2O$ (PCDE-12)	1.1×10^{-1}		Kurz and Ballschmiter (1999)	V	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
3,4'-dichlorodiphenyl ether $C_{12}H_8Cl_2O$ (PCDE-13)	1.3×10^{-1}		Kurz and Ballschmiter (1999)	V	
3,5-dichlorodiphenyl ether $C_{12}H_8Cl_2O$ (PCDE-14)	6.5×10^{-2}		Kurz and Ballschmiter (1999)	V	
4,4'-dichlorodiphenyl ether $C_{12}H_8Cl_2O$ (PCDE-15) [2444-89-5]	2.1×10^{-1}		Kurz and Ballschmiter (1999)	V	
2,2',4-trichlorodiphenyl ether $C_{12}H_7Cl_3O$ (PCDE-17)	4.5×10^{-1}		Kurz and Ballschmiter (1999)	V	
2,3,4-trichlorodiphenyl ether $C_{12}H_7Cl_3O$ (PCDE-21)	2.8×10^{-1}		Kurz and Ballschmiter (1999)	V	
2,3,4'-trichlorodiphenyl ether $C_{12}H_7Cl_3O$ (PCDE-22)	3.2×10^{-1}		Kurz and Ballschmiter (1999)	V	
2,3,5-trichlorodiphenyl ether $C_{12}H_7Cl_3O$ (PCDE-23)	2.2×10^{-1}		Kurz and Ballschmiter (1999)	V	
2,3,6-trichlorodiphenyl ether $C_{12}H_7Cl_3O$ (PCDE-24)	3.0×10^{-2}		Kurz and Ballschmiter (1999)	V	
2,3',4-trichlorodiphenyl ether $C_{12}H_7Cl_3O$ (PCDE-25)	1.5×10^{-1}		Kurz and Ballschmiter (1999)	V	
2,4,4'-trichlorodiphenyl ether $C_{12}H_7Cl_3O$ (PCDE-28)	3.0×10^{-2}		Kurz and Ballschmiter (1999)	V	
2,4,5-trichlorodiphenyl ether $C_{12}H_7Cl_3O$ (PCDE-29)	8.9×10^{-3}		Kurz and Ballschmiter (1999)	V	
2,4,6-trichlorodiphenyl ether $C_{12}H_7Cl_3O$ (PCDE-30)	1.4×10^{-2}		Kurz and Ballschmiter (1999)	V	
2,4',5-trichlorodiphenyl ether $C_{12}H_7Cl_3O$ (PCDE-31) [65075-00-5]	1.6×10^{-1}		Kurz and Ballschmiter (1999)	V	
2,4',6-trichlorodiphenyl ether $C_{12}H_7Cl_3O$ (PCDE-32)	4.2×10^{-2}		Kurz and Ballschmiter (1999)	V	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,3',4'-trichlorodiphenyl ether $C_{12}H_7Cl_3O$ (PCDE-33)	3.4×10^{-1}		Kurz and Ballschmiter (1999)	V	
3,3',4-trichlorodiphenyl ether $C_{12}H_7Cl_3O$ (PCDE-35)	2.2×10^{-1}		Kurz and Ballschmiter (1999)	V	
3,4,4'-trichlorodiphenyl ether $C_{12}H_7Cl_3O$ (PCDE-37)	1.6×10^{-1}		Kurz and Ballschmiter (1999)	V	
3,4,5-trichlorodiphenyl ether $C_{12}H_7Cl_3O$ (PCDE-38)	9.1×10^{-3}		Kurz and Ballschmiter (1999)	V	
3,4',5-trichlorodiphenyl ether $C_{12}H_7Cl_3O$ (PCDE-39)	1.6×10^{-1}		Kurz and Ballschmiter (1999)	V	
2,2',3,4-tetrachlorodiphenyl ether $C_{12}H_6Cl_4O$ (PCDE-41)	5.5×10^{-2}		Kurz and Ballschmiter (1999)	V	
2,2',3,4'-tetrachlorodiphenyl ether $C_{12}H_6Cl_4O$ (PCDE-42)	5.8×10^{-2}		Kurz and Ballschmiter (1999)	V	
2,2',4,4'-tetrachlorodiphenyl ether $C_{12}H_6Cl_4O$ (PCDE-47) [28076-73-5]	2.9×10^{-2} 2.8×10^{-1}		Kurz and Ballschmiter (1999) HSDB (2015)	V Q	 38
2,2',4,5-tetrachlorodiphenyl ether $C_{12}H_6Cl_4O$ (PCDE-48)	1.6×10^{-2}		Kurz and Ballschmiter (1999)	V	
2,2',4,5'-tetrachlorodiphenyl ether $C_{12}H_6Cl_4O$ (PCDE-49)	2.6×10^{-2}		Kurz and Ballschmiter (1999)	V	
2,3,3',4-tetrachlorodiphenyl ether $C_{12}H_6Cl_4O$ (PCDE-55)	2.3×10^{-2}		Kurz and Ballschmiter (1999)	V	
2,3,3',4'-tetrachlorodiphenyl ether $C_{12}H_6Cl_4O$ (PCDE-56)	4.4×10^{-2}		Kurz and Ballschmiter (1999)	V	
2,3,4,4'-tetrachlorodiphenyl ether $C_{12}H_6Cl_4O$ (PCDE-60)	3.6×10^{-2}		Kurz and Ballschmiter (1999)	V	
2,3,4,5-tetrachlorodiphenyl ether $C_{12}H_6Cl_4O$ (PCDE-61)	6.6×10^{-3}		Kurz and Ballschmiter (1999)	V	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,3,4,6-tetrachlorodiphenyl ether $C_{12}H_6Cl_4O$ (PCDE-62)	9.1×10^{-3}		Kurz and Ballschmiter (1999)	V	
2,3,4',5-tetrachlorodiphenyl ether $C_{12}H_6Cl_4O$ (PCDE-63)	1.5×10^{-2}		Kurz and Ballschmiter (1999)	V	
2,3,4',6-tetrachlorodiphenyl ether $C_{12}H_6Cl_4O$ (PCDE-64)	3.8×10^{-2}		Kurz and Ballschmiter (1999)	V	
2,3,5,6-tetrachlorodiphenyl ether $C_{12}H_6Cl_4O$ (PCDE-65)	9.3×10^{-3}		Kurz and Ballschmiter (1999)	V	
2,3',4,4'-tetrachlorodiphenyl ether $C_{12}H_6Cl_4O$ (PCDE-66) [61328-46-9]	2.5×10^{-2}		Kurz and Ballschmiter (1999)	V	
2,3',4,5-tetrachlorodiphenyl ether $C_{12}H_6Cl_4O$ (PCDE-67)	8.9×10^{-3}		Kurz and Ballschmiter (1999)	V	
2,3',4,5'-tetrachlorodiphenyl ether $C_{12}H_6Cl_4O$ (PCDE-68)	1.0×10^{-2}		Kurz and Ballschmiter (1999)	V	
2,3',4',5-tetrachlorodiphenyl ether $C_{12}H_6Cl_4O$ (PCDE-70)	1.8×10^{-2}		Kurz and Ballschmiter (1999)	V	
2,3',4',6-tetrachlorodiphenyl ether $C_{12}H_6Cl_4O$ (PCDE-71)	4.6×10^{-2}		Kurz and Ballschmiter (1999)	V	
2,4,4',5-tetrachlorodiphenyl ether $C_{12}H_6Cl_4O$ (PCDE-74) [61328-45-8]	1.9×10^{-2}		Kurz and Ballschmiter (1999)	V	
2,4,4',6-tetrachlorodiphenyl ether $C_{12}H_6Cl_4O$ (PCDE-75)	1.7×10^{-2}		Kurz and Ballschmiter (1999)	V	
3,3',4,4'-tetrachlorodiphenyl ether $C_{12}H_6Cl_4O$ (PCDE-77) [56348-72-2]	4.1×10^{-2}		Kurz and Ballschmiter (1999)	V	
3,3',4,5'-tetrachlorodiphenyl ether $C_{12}H_6Cl_4O$ (PCDE-79)	1.0×10^{-2}		Kurz and Ballschmiter (1999)	V	
3,4,4',5-tetrachlorodiphenyl ether $C_{12}H_6Cl_4O$ (PCDE-81)	1.5×10^{-2}		Kurz and Ballschmiter (1999)	V	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,2',3,3',4-pentachlorodiphenyl ether $C_{12}H_5Cl_5O$ (PCDE-82)	8.3×10^{-2}		Kurz and Ballschmiter (1999)	V	
2,2',3,4,4'-pentachlorodiphenyl ether $C_{12}H_5Cl_5O$ (PCDE-85) [71585-37-0]	5.2×10^{-2}		Kurz and Ballschmiter (1999)	V	
2,2',3,4,5'-pentachlorodiphenyl ether $C_{12}H_5Cl_5O$ (PCDE-87)	2.2×10^{-2}		Kurz and Ballschmiter (1999)	V	
2,2',3,4,6'-pentachlorodiphenyl ether $C_{12}H_5Cl_5O$ (PCDE-89)	6.5×10^{-2}		Kurz and Ballschmiter (1999)	V	
2,2',3,4',5-pentachlorodiphenyl ether $C_{12}H_5Cl_5O$ (PCDE-90)	1.5×10^{-2}		Kurz and Ballschmiter (1999)	V	
2,2',3,4',6-pentachlorodiphenyl ether $C_{12}H_5Cl_5O$ (PCDE-91)	3.9×10^{-2}		Kurz and Ballschmiter (1999)	V	
2,2',3,4',5'-pentachlorodiphenyl ether $C_{12}H_5Cl_5O$ (PCDE-97)	3.3×10^{-2}		Kurz and Ballschmiter (1999)	V	
2,2',4,4',5-pentachlorodiphenyl ether $C_{12}H_5Cl_5O$ (PCDE-99) [60123-64-0]	1.8×10^{-2} 3.8×10^{-2}	 6100	Kurz and Ballschmiter (1999) Paasivirta et al. (1999)	V T	
2,2',4,4',6-pentachlorodiphenyl ether $C_{12}H_5Cl_5O$ (PCDE-100) [104294-16-8]	2.1×10^{-2} 1.3×10^{-2}	 5800	Kurz and Ballschmiter (1999) Paasivirta et al. (1999)	V T	
2,2',4,5,5'-pentachlorodiphenyl ether $C_{12}H_5Cl_5O$ (PCDE-101) [131138-21-1]	1.6×10^{-2}		Kurz and Ballschmiter (1999)	V	
2,2',4,5,6'-pentachlorodiphenyl ether $C_{12}H_5Cl_5O$ (PCDE-102)	3.7×10^{-2}		Kurz and Ballschmiter (1999)	V	
2,3,3',4,4'-pentachlorodiphenyl ether $C_{12}H_5Cl_5O$ (PCDE-105) [85918-31-6]	4.2×10^{-2}		Kurz and Ballschmiter (1999)	V	
2,3,3',4,5'-pentachlorodiphenyl ether $C_{12}H_5Cl_5O$ (PCDE-108)	1.5×10^{-2}		Kurz and Ballschmiter (1999)	V	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,3,3',4,6-pentachlorodiphenyl ether $C_{12}H_5Cl_5O$ (PCDE-109)	1.4×10^{-2}		Kurz and Ballschmiter (1999)	V	
2,3,3',4',6-pentachlorodiphenyl ether $C_{12}H_5Cl_5O$ (PCDE-110)	3.6×10^{-2}		Kurz and Ballschmiter (1999)	V	
2,3,4,4',5-pentachlorodiphenyl ether $C_{12}H_5Cl_5O$ (PCDE-114)	1.2×10^{-2}		Kurz and Ballschmiter (1999)	V	
2,3,4,4',6-pentachlorodiphenyl ether $C_{12}H_5Cl_5O$ (PCDE-115)	1.1×10^{-2}		Kurz and Ballschmiter (1999)	V	
2,3,4,5,6-pentachlorodiphenyl ether $C_{12}H_5Cl_5O$ (PCDE-116)	6.6×10^{-3}		Kurz and Ballschmiter (1999)	V	
2,3,4',5,6-pentachlorodiphenyl ether $C_{12}H_5Cl_5O$ (PCDE-117)	1.1×10^{-2}		Kurz and Ballschmiter (1999)	V	
2,3',4,4',5-pentachlorodiphenyl ether $C_{12}H_5Cl_5O$ (PCDE-118)	1.5×10^{-2}		Kurz and Ballschmiter (1999)	V	
2,3',4,4',6-pentachlorodiphenyl ether $C_{12}H_5Cl_5O$ (PCDE-119)	1.3×10^{-2}		Kurz and Ballschmiter (1999)	V	
2,3',4,5,5'-pentachlorodiphenyl ether $C_{12}H_5Cl_5O$ (PCDE-120)	4.8×10^{-3}		Kurz and Ballschmiter (1999)	V	
2,3',4,4',5'-pentachlorodiphenyl ether $C_{12}H_5Cl_5O$ (PCDE-123)	1.3×10^{-2}		Kurz and Ballschmiter (1999)	V	
3,3',4,4',5-pentachlorodiphenyl ether $C_{12}H_5Cl_5O$ (PCDE-126) [94339-59-0]	1.0×10^{-2}		Kurz and Ballschmiter (1999)	V	
2,2',3,3',4,4'-hexachlorodiphenyl ether $C_{12}H_4Cl_6O$ (PCDE-128) [71585-39-2]	8.3×10^{-2}		Kurz and Ballschmiter (1999)	V	
2,2',3,3',4,5'-hexachlorodiphenyl ether $C_{12}H_4Cl_6O$ (PCDE-130)	1.5×10^{-2}		Kurz and Ballschmiter (1999)	V	
2,2',3,3',4,6'-hexachlorodiphenyl ether $C_{12}H_4Cl_6O$ (PCDE-132)	6.2×10^{-2}		Kurz and Ballschmiter (1999)	V	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,2',3,4,4',5-hexachlorodiphenyl ether $C_{12}H_4Cl_6O$ (PCDE-137) [71585-36-9]	1.8×10^{-2} 1.9×10^{-2}	 6400	Kurz and Ballschmiter (1999) Paasivirta et al. (1999)	V T	
2,2',3,4,4',5'-hexachlorodiphenyl ether $C_{12}H_4Cl_6O$ (PCDE-138) [71585-38-1]	2.9×10^{-2} 2.8×10^{-2}	 6500	Kurz and Ballschmiter (1999) Paasivirta et al. (1999)	V T	
2,2',3,4,4',6-hexachlorodiphenyl ether $C_{12}H_4Cl_6O$ (PCDE-139)	9.8×10^{-3}		Kurz and Ballschmiter (1999)	V	
2,2',3,4,4',6'-hexachlorodiphenyl ether $C_{12}H_4Cl_6O$ (PCDE-140) [106220-82-0]	3.0×10^{-2}		Kurz and Ballschmiter (1999)	V	
2,2',3,4',5,5'-hexachlorodiphenyl ether $C_{12}H_4Cl_6O$ (PCDE-146)	1.0×10^{-2}		Kurz and Ballschmiter (1999)	V	
2,2',3,4',5,6-hexachlorodiphenyl ether $C_{12}H_4Cl_6O$ (PCDE-147)	1.0×10^{-2}		Kurz and Ballschmiter (1999)	V	
2,2',3,4',5',6-hexachlorodiphenyl ether $C_{12}H_4Cl_6O$ (PCDE-149)	3.1×10^{-2}		Kurz and Ballschmiter (1999)	V	
2,2',4,4',5,5'-hexachlorodiphenyl ether $C_{12}H_4Cl_6O$ (PCDE-153) [71859-30-8]	1.3×10^{-2} 1.1×10^{-2}	 6300	Kurz and Ballschmiter (1999) Paasivirta et al. (1999)	V T	
2,2',4,4',5,6'-hexachlorodiphenyl ether $C_{12}H_4Cl_6O$ (PCDE-154) [106220-81-9]	1.4×10^{-2} 4.4×10^{-3}	 5900	Kurz and Ballschmiter (1999) Paasivirta et al. (1999)	V T	
2,3,3',4,4',5-hexachlorodiphenyl ether $C_{12}H_4Cl_6O$ (PCDE-156)	1.2×10^{-2}		Kurz and Ballschmiter (1999)	V	
2,3,3',4,4',5'-hexachlorodiphenyl ether $C_{12}H_4Cl_6O$ (PCDE-157)	2.8×10^{-2}		Kurz and Ballschmiter (1999)	V	
2,3,3',4',5,6-hexachlorodiphenyl ether $C_{12}H_4Cl_6O$ (PCDE-163)	1.6×10^{-2}		Kurz and Ballschmiter (1999)	V	
2,3,4,4',5,6-hexachlorodiphenyl ether $C_{12}H_4Cl_6O$ (PCDE-166)	5.0×10^{-3}		Kurz and Ballschmiter (1999)	V	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,3',4,4',5,5'-hexachlorodiphenyl ether $C_{12}H_4Cl_6O$ (PCDE-167) [131138-20-0]	8.3×10^{-3} 9.0×10^{-3}	 6200	Kurz and Ballschmiter (1999) Paasivirta et al. (1999)	V T	
2,2',3,3',4,4',5-heptachlorodiphenyl ether $C_{12}H_3Cl_7O$ (PCDE-170)	2.0×10^{-2}		Kurz and Ballschmiter (1999)	V	
2,2',3,3',4,5,6'-heptachlorodiphenyl ether $C_{12}H_3Cl_7O$ (PCDE-174)	1.8×10^{-2}		Kurz and Ballschmiter (1999)	V	
2,2',3,3',4,5',6'-heptachlorodiphenyl ether $C_{12}H_3Cl_7O$ (PCDE-177)	1.4×10^{-2}		Kurz and Ballschmiter (1999)	V	
2,2',3,4,4',5,5'-heptachlorodiphenyl ether $C_{12}H_3Cl_7O$ (PCDE-180) [83992-69-2]	5.0×10^{-3} 1.9×10^{-2}	 6800	Kurz and Ballschmiter (1999) Paasivirta et al. (1999)	V T	
2,2',3,4,4',5,6-heptachlorodiphenyl ether $C_{12}H_3Cl_7O$ (PCDE-181)	3.4×10^{-3}		Kurz and Ballschmiter (1999)	V	
2,2',3,4,4',5,6'-heptachlorodiphenyl ether $C_{12}H_3Cl_7O$ (PCDE-182) [88467-63-4]	3.3×10^{-3}	6400	Paasivirta et al. (1999)	T	
2,2',3,4,4',6,6'-heptachlorodiphenyl ether $C_{12}H_3Cl_7O$ (PCDE-184) [106220-84-2]	2.0×10^{-1}	7800	Paasivirta et al. (1999)	T	
2,2',3,4',5,5',6-heptachlorodiphenyl ether $C_{12}H_3Cl_7O$ (PCDE-187)	7.4×10^{-3}		Kurz and Ballschmiter (1999)	V	
2,3,3',4,4',5,5'-heptachlorodiphenyl ether $C_{12}H_3Cl_7O$ (PCDE-189)	6.2×10^{-3}		Kurz and Ballschmiter (1999)	V	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,3,3',4,4',5,6-heptachlorodiphenyl ether $C_{12}H_3Cl_7O$ (PCDE-190)	5.8×10^{-3}		Kurz and Ballschmiter (1999)	V	
2,2',3,3',4,4',5,5'-octachlorodiphenyl ether $C_{12}H_2Cl_8O$ (PCDE-194)	4.3×10^{-3}		Kurz and Ballschmiter (1999)	V	
2,2',3,3',4,4',5,6-octachlorodiphenyl ether $C_{12}H_2Cl_8O$ (PCDE-195)	1.8×10^{-3}		Kurz and Ballschmiter (1999)	V	
2,2',3,3',4,4',5,6'-octachlorodiphenyl ether $C_{12}H_2Cl_8O$ (PCDE-196) [85918-38-3]	8.7×10^{-3}	7100	Paasivirta et al. (1999)	T	
2,2',3,3',4,4',6,6'-octachlorodiphenyl ether $C_{12}H_2Cl_8O$ (PCDE-197) [117948-62-6]	7.7×10^{-3}	7000	Paasivirta et al. (1999)	T	
2,2',3,3',4,5,5',6'-octachlorodiphenyl ether $C_{12}H_2Cl_8O$ (PCDE-199)	2.6×10^{-3}		Kurz and Ballschmiter (1999)	V	
2,2',3,4,4',5,5',6-octachlorodiphenyl ether $C_{12}H_2Cl_8O$ (PCDE-203)	2.3×10^{-3}		Kurz and Ballschmiter (1999)	V	
2,2',3,3',4,4',5,5',6-nonachlorodiphenyl ether $C_{12}HCl_9O$ (PCDE-206) [83992-73-8]	5.1×10^{-4}		Kurz and Ballschmiter (1999)	V	
decachlorodiphenyl ether $C_{12}Cl_{10}O$ (PCDE-209) [31710-30-2]	7.1×10^{-5}		Kurz and Ballschmiter (1999)	V	
Polychlorinated dibenzofuranes (PCDFs)					
1-chlorodibenzofuran $C_{12}H_7ClO$ (PCDF-1) [84761-86-4]	8.3×10^{-2}		Govers and Krop (1998)	Q	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2-chlorodibenzofuran $C_{12}H_7ClO$ (PCDF-2) [51230-49-0]	1.1×10^{-1}		Govers and Krop (1998)	Q	
3-chlorodibenzofuran $C_{12}H_7ClO$ (PCDF-3) [25074-67-3]	1.3×10^{-1}		Govers and Krop (1998)	Q	
4-chlorodibenzofuran $C_{12}H_7ClO$ (PCDF-4) [74992-96-4]	8.9×10^{-2}		Govers and Krop (1998)	Q	
1,2-dichlorodibenzofuran $C_{12}H_6Cl_2O$ (PCDF-12) [64126-85-8]	1.5×10^{-1}		Govers and Krop (1998)	Q	
1,3-dichlorodibenzofuran $C_{12}H_6Cl_2O$ (PCDF-13) [94538-00-8]	2.0×10^{-1}		Govers and Krop (1998)	Q	
1,4-dichlorodibenzofuran $C_{12}H_6Cl_2O$ (PCDF-14) [94538-01-9]	1.5×10^{-1}		Govers and Krop (1998)	Q	
1,6-dichlorodibenzofuran $C_{12}H_6Cl_2O$ (PCDF-16) [74992-97-5]	1.4×10^{-1}		Govers and Krop (1998)	Q	
1,7-dichlorodibenzofuran $C_{12}H_6Cl_2O$ (PCDF-17) [94538-02-0]	1.9×10^{-1}		Govers and Krop (1998)	Q	
1,8-dichlorodibenzofuran $C_{12}H_6Cl_2O$ (PCDF-18) [81638-37-1]	2.5×10^{-1}		Govers and Krop (1998)	Q	
1,9-dichlorodibenzofuran $C_{12}H_6Cl_2O$ (PCDF-19) [70648-14-5]	2.0×10^{-1}		Govers and Krop (1998)	Q	
2,3-dichlorodibenzofuran $C_{12}H_6Cl_2O$ (PCDF-23) [64126-86-9]	2.3×10^{-1}		Govers and Krop (1998)	Q	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,4-dichlorodibenzofuran $C_{12}H_6Cl_2O$ (PCDF-24) [24478-74-8]	1.9×10^{-1}		Govers and Krop (1998)	Q	
2,6-dichlorodibenzofuran $C_{12}H_6Cl_2O$ (PCDF-26) [60390-27-4]	1.8×10^{-1}		Govers and Krop (1998)	Q	
2,7-dichlorodibenzofuran $C_{12}H_6Cl_2O$ (PCDF-27) [74992-98-6]	2.0×10^{-1}		Govers and Krop (1998)	Q	
2,8-dichlorodibenzofuran $C_{12}H_6Cl_2O$ (PCDF-28) [5409-83-6]	1.6×10^{-1} 1.6×10^{-1} 2.6×10^{-1} 2.2×10^{-1}		Mackay et al. (2006b) Govers and Krop (1998) Saçan et al. (2005) Govers and Krop (1998)	V V Q Q	
3,4-dichlorodibenzofuran $C_{12}H_6Cl_2O$ (PCDF-34) [94570-83-9]	1.9×10^{-1}		Govers and Krop (1998)	Q	
3,6-dichlorodibenzofuran $C_{12}H_6Cl_2O$ (PCDF-36) [74918-40-4]	2.2×10^{-1}		Govers and Krop (1998)	Q	
3,7-dichlorodibenzofuran $C_{12}H_6Cl_2O$ (PCDF-37) [58802-21-4]	3.0×10^{-1}		Govers and Krop (1998)	Q	
4,6-dichlorodibenzofuran $C_{12}H_6Cl_2O$ (PCDF-46) [64560-13-0]	2.2×10^{-1}		Govers and Krop (1998)	Q	
1,2,3-trichlorodibenzofuran $C_{12}H_5Cl_3O$ (PCDF-123) [83636-47-9]	2.9×10^{-1}		Govers and Krop (1998)	Q	
1,2,4-trichlorodibenzofuran $C_{12}H_5Cl_3O$ (PCDF-124) [24478-73-7]	2.5×10^{-1}		Govers and Krop (1998)	Q	
1,2,6-trichlorodibenzofuran $C_{12}H_5Cl_3O$ (PCDF-126) [64560-15-2]	2.3×10^{-1}		Govers and Krop (1998)	Q	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1,2,7-trichlorodibenzofuran $C_{12}H_5Cl_3O$ (PCDF-127) [83704-37-4]	2.3×10^{-1}		Govers and Krop (1998)	Q	
1,2,8-trichlorodibenzofuran $C_{12}H_5Cl_3O$ (PCDF-128) [83704-34-1]	3.9×10^{-1}		Govers and Krop (1998)	Q	
1,2,9-trichlorodibenzofuran $C_{12}H_5Cl_3O$ (PCDF-129) [83704-38-5]	4.8×10^{-1}		Govers and Krop (1998)	Q	
1,3,4-trichlorodibenzofuran $C_{12}H_5Cl_3O$ (PCDF-134) [82911-61-3]	2.8×10^{-1}		Govers and Krop (1998)	Q	
1,3,6-trichlorodibenzofuran $C_{12}H_5Cl_3O$ (PCDF-136) [83704-39-6]	3.3×10^{-1}		Govers and Krop (1998)	Q	
1,3,7-trichlorodibenzofuran $C_{12}H_5Cl_3O$ (PCDF-137) [64560-16-3]	4.1×10^{-1}		Govers and Krop (1998)	Q	
1,3,8-trichlorodibenzofuran $C_{12}H_5Cl_3O$ (PCDF-138) [76621-12-0]	4.2×10^{-1}		Govers and Krop (1998)	Q	
1,3,9-trichlorodibenzofuran $C_{12}H_5Cl_3O$ (PCDF-139) [83704-40-9]	4.4×10^{-1}		Govers and Krop (1998)	Q	
1,4,6-trichlorodibenzofuran $C_{12}H_5Cl_3O$ (PCDF-146) [82911-60-2]	3.5×10^{-1}		Govers and Krop (1998)	Q	
1,4,7-trichlorodibenzofuran $C_{12}H_5Cl_3O$ (PCDF-147) [83704-41-0]	3.2×10^{-1}		Govers and Krop (1998)	Q	
1,4,8-trichlorodibenzofuran $C_{12}H_5Cl_3O$ (PCDF-148) [64560-14-1]	3.9×10^{-1}		Govers and Krop (1998)	Q	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1,4,9-trichlorodibenzofuran $C_{12}H_5Cl_3O$ (PCDF-149) [70648-13-4]	3.5×10^{-1}		Govers and Krop (1998)	Q	
2,3,4-trichlorodibenzofuran $C_{12}H_5Cl_3O$ (PCDF-234) [57117-34-7]	3.1×10^{-1}		Govers and Krop (1998)	Q	
2,3,6-trichlorodibenzofuran $C_{12}H_5Cl_3O$ (PCDF-236)	3.4×10^{-1}		Govers and Krop (1998)	Q	
2,3,7-trichlorodibenzofuran $C_{12}H_5Cl_3O$ (PCDF-237) [58802-17-8]	3.5×10^{-1}		Govers and Krop (1998)	Q	
2,3,8-trichlorodibenzofuran $C_{12}H_5Cl_3O$ (PCDF-238) [57117-32-5]	3.1×10^{-1}		Govers and Krop (1998)	Q	
2,3,9-trichlorodibenzofuran $C_{12}H_5Cl_3O$ (PCDF-239)	4.6×10^{-1}		Govers and Krop (1998)	Q	
2,4,6-trichlorodibenzofuran $C_{12}H_5Cl_3O$ (PCDF-246) [58802-14-5]	4.2×10^{-1}		Govers and Krop (1998)	Q	
2,4,7-trichlorodibenzofuran $C_{12}H_5Cl_3O$ (PCDF-247) [83704-42-1]	3.1×10^{-1}		Govers and Krop (1998)	Q	
2,4,8-trichlorodibenzofuran $C_{12}H_5Cl_3O$ (PCDF-248) [54589-71-8]	3.2×10^{-1}		Govers and Krop (1998)	Q	
2,4,9-trichlorodibenzofuran $C_{12}H_5Cl_3O$ (PCDF-249)	4.1×10^{-1}		Govers and Krop (1998)	Q	
3,4,6-trichlorodibenzofuran $C_{12}H_5Cl_3O$ (PCDF-346)	4.3×10^{-1}		Govers and Krop (1998)	Q	
3,4,7-trichlorodibenzofuran $C_{12}H_5Cl_3O$ (PCDF-347) [83704-44-3]	3.9×10^{-1}		Govers and Krop (1998)	Q	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
3,4,8-trichlorodibenzofuran $C_{12}H_5Cl_3O$ (PCDF-348)	2.5×10^{-1}		Govers and Krop (1998)	Q	
3,4,9-trichlorodibenzofuran $C_{12}H_5Cl_3O$ (PCDF-349) [83704-46-5]	2.7×10^{-1}		Govers and Krop (1998)	Q	
1,2,3,4-tetrachlorodibenzofuran $C_{12}H_4Cl_4O$ (PCDF-1234) [24478-72-6]	3.6×10^{-1}		Govers and Krop (1998)	Q	
1,2,3,6-tetrachlorodibenzofuran $C_{12}H_4Cl_4O$ (PCDF-1236) [83704-21-6]	4.1×10^{-1}		Govers and Krop (1998)	Q	
1,2,3,7-tetrachlorodibenzofuran $C_{12}H_4Cl_4O$ (PCDF-1237) [83704-22-7]	3.9×10^{-1}		Govers and Krop (1998)	Q	
1,2,3,8-tetrachlorodibenzofuran $C_{12}H_4Cl_4O$ (PCDF-1238) [62615-08-1]	5.0×10^{-1}		Govers and Krop (1998)	Q	
1,2,3,9-tetrachlorodibenzofuran $C_{12}H_4Cl_4O$ (PCDF-1239) [83704-23-8]	7.9×10^{-1}		Govers and Krop (1998)	Q	
1,2,4,6-tetrachlorodibenzofuran $C_{12}H_4Cl_4O$ (PCDF-1246) [71998-73-7]	5.1×10^{-1}		Govers and Krop (1998)	Q	
1,2,4,7-tetrachlorodibenzofuran $C_{12}H_4Cl_4O$ (PCDF-1247) [83719-40-8]	3.5×10^{-1}		Govers and Krop (1998)	Q	
1,2,4,8-tetrachlorodibenzofuran $C_{12}H_4Cl_4O$ (PCDF-1248) [64126-87-0]	5.5×10^{-1}		Govers and Krop (1998)	Q	
1,2,4,9-tetrachlorodibenzofuran $C_{12}H_4Cl_4O$ (PCDF-1249)	7.4×10^{-1}		Govers and Krop (1998)	Q	
1,2,6,7-tetrachlorodibenzofuran $C_{12}H_4Cl_4O$ (PCDF-1267) [83704-25-0]	2.8×10^{-1}		Govers and Krop (1998)	Q	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1,2,6,8-tetrachlorodibenzofuran $C_{12}H_4Cl_4O$ (PCDF-1268) [83710-07-0]	5.5×10^{-1}		Govers and Krop (1998)	Q	
1,2,6,9-tetrachlorodibenzofuran $C_{12}H_4Cl_4O$ (PCDF-1269)	7.1×10^{-1}		Govers and Krop (1998)	Q	
1,2,7,8-tetrachlorodibenzofuran $C_{12}H_4Cl_4O$ (PCDF-1278) [58802-20-3]	1.1 4.8×10^{-1}		Saçan et al. (2005) Govers and Krop (1998)	Q Q	
1,2,7,9-tetrachlorodibenzofuran $C_{12}H_4Cl_4O$ (PCDF-1279) [83704-26-1]	6.9×10^{-1}		Govers and Krop (1998)	Q	
1,2,8,9-tetrachlorodibenzofuran $C_{12}H_4Cl_4O$ (PCDF-1289)	9.5×10^{-1}		Govers and Krop (1998)	Q	
1,3,4,6-tetrachlorodibenzofuran $C_{12}H_4Cl_4O$ (PCDF-1346) [83704-27-2]	6.3×10^{-1}		Govers and Krop (1998)	Q	
1,3,4,7-tetrachlorodibenzofuran $C_{12}H_4Cl_4O$ (PCDF-1347) [70648-16-7]	5.1×10^{-1}		Govers and Krop (1998)	Q	
1,3,4,8-tetrachlorodibenzofuran $C_{12}H_4Cl_4O$ (PCDF-1348) [92341-04-3]	5.0×10^{-1}		Govers and Krop (1998)	Q	
1,3,4,9-tetrachlorodibenzofuran $C_{12}H_4Cl_4O$ (PCDF-1349)	5.8×10^{-1}		Govers and Krop (1998)	Q	
1,3,6,7-tetrachlorodibenzofuran $C_{12}H_4Cl_4O$ (PCDF-1367) [57117-36-9]	5.1×10^{-1}		Govers and Krop (1998)	Q	
1,3,6,8-tetrachlorodibenzofuran $C_{12}H_4Cl_4O$ (PCDF-1368) [71998-72-6]	6.2×10^{-1}		Govers and Krop (1998)	Q	
1,3,6,9-tetrachlorodibenzofuran $C_{12}H_4Cl_4O$ (PCDF-1369) [83690-98-6]	6.8×10^{-1}		Govers and Krop (1998)	Q	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1,3,7,8-tetrachlorodibenzofuran $C_{12}H_4Cl_4O$ (PCDF-1378) [57117-35-8]	6.5×10^{-1}		Govers and Krop (1998)	Q	
1,3,7,9-tetrachlorodibenzofuran $C_{12}H_4Cl_4O$ (PCDF-1379) [64560-17-4]	7.9×10^{-1}		Govers and Krop (1998)	Q	
1,4,6,7-tetrachlorodibenzofuran $C_{12}H_4Cl_4O$ (PCDF-1467) [66794-59-0]	5.9×10^{-1}		Govers and Krop (1998)	Q	
1,4,6,8-tetrachlorodibenzofuran $C_{12}H_4Cl_4O$ (PCDF-1468) [82911-58-8]	8.5×10^{-1}		Govers and Krop (1998)	Q	
1,4,6,9-tetrachlorodibenzofuran $C_{12}H_4Cl_4O$ (PCDF-1469)	7.9×10^{-1}		Govers and Krop (1998)	Q	
1,4,7,8-tetrachlorodibenzofuran $C_{12}H_4Cl_4O$ (PCDF-1478) [83704-29-4]	6.5×10^{-1}		Govers and Krop (1998)	Q	
1,6,7,8-tetrachlorodibenzofuran $C_{12}H_4Cl_4O$ (PCDF-1678)	5.8×10^{-1}		Govers and Krop (1998)	Q	
2,3,4,6-tetrachlorodibenzofuran $C_{12}H_4Cl_4O$ (PCDF-2346) [83704-30-7]	6.2×10^{-1}		Govers and Krop (1998)	Q	
2,3,4,7-tetrachlorodibenzofuran $C_{12}H_4Cl_4O$ (PCDF-2347) [83704-31-8]	4.4×10^{-1}		Govers and Krop (1998)	Q	
2,3,4,8-tetrachlorodibenzofuran $C_{12}H_4Cl_4O$ (PCDF-2348) [83704-32-9]	3.5×10^{-1}		Govers and Krop (1998)	Q	
2,3,6,7-tetrachlorodibenzofuran $C_{12}H_4Cl_4O$ (PCDF-2367) [57117-39-2]	4.1×10^{-1}		Govers and Krop (1998)	Q	
2,3,6,8-tetrachlorodibenzofuran $C_{12}H_4Cl_4O$ (PCDF-2368) [57117-37-0]	4.2×10^{-1}		Govers and Krop (1998)	Q	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,3,7,8-tetrachlorodibenzofuran	5.9×10^{-1}		Friesen et al. (1993)	M	
$C_{12}H_4Cl_4O$	6.8×10^{-1}		Mackay et al. (2006b)	V	
(PCDF-2378)	8.5×10^{-1}		Govers and Krop (1998)	V	
[51207-31-9]	2.2×10^{-3}	3700	Paasivirta et al. (1999)	T	
	6.4×10^{-1}		HSDB (2015)	Q	38
	7.2×10^{-1}		Saçan et al. (2005)	Q	
	3.7×10^{-1}		Govers and Krop (1998)	Q	
2,4,6,7-tetrachlorodibenzofuran $C_{12}H_4Cl_4O$ (PCDF-2467) [57117-38-1]	5.4×10^{-1}		Govers and Krop (1998)	Q	
2,4,6,8-tetrachlorodibenzofuran $C_{12}H_4Cl_4O$ (PCDF-2468) [58802-19-0]	6.6×10^{-1}		Govers and Krop (1998)	Q	
3,4,6,7-tetrachlorodibenzofuran $C_{12}H_4Cl_4O$ (PCDF-3467) [57117-40-5]	7.1×10^{-1}		Govers and Krop (1998)	Q	
1,2,3,4,6-pentachlorodibenzofuran $C_{12}H_3Cl_5O$ (PCDF-12346) [83704-47-6]	7.1×10^{-1}		Govers and Krop (1998)	Q	
1,2,3,4,7-pentachlorodibenzofuran $C_{12}H_3Cl_5O$ (PCDF-12347) [83704-48-7]	4.5×10^{-1}		Govers and Krop (1998)	Q	
1,2,3,4,8-pentachlorodibenzofuran $C_{12}H_3Cl_5O$ (PCDF-12348) [67517-48-0]	5.5×10^{-1}		Govers and Krop (1998)	Q	
1,2,3,4,9-pentachlorodibenzofuran $C_{12}H_3Cl_5O$ (PCDF-12349) [83704-49-8]	9.8×10^{-1}		Govers and Krop (1998)	Q	
1,2,3,6,7-pentachlorodibenzofuran $C_{12}H_3Cl_5O$ (PCDF-12367) [57117-42-7]	4.2×10^{-1}		Govers and Krop (1998)	Q	
1,2,3,6,8-pentachlorodibenzofuran $C_{12}H_3Cl_5O$ (PCDF-12368) [83704-51-2]	6.5×10^{-1}		Govers and Krop (1998)	Q	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1,2,3,6,9-pentachlorodibenzofuran $C_{12}H_3Cl_5O$ (PCDF-12369) [83704-52-3]	1.1		Govers and Krop (1998)	Q	
1,2,3,7,8-pentachlorodibenzofuran $C_{12}H_3Cl_5O$ (PCDF-12378) [57117-41-6]	8.7×10^{-4} 5.2×10^{-1}	3000	Paasivirta et al. (1999) Govers and Krop (1998)	T Q	
1,2,3,7,9-pentachlorodibenzofuran $C_{12}H_3Cl_5O$ (PCDF-12379) [83704-53-4]	1.0		Govers and Krop (1998)	Q	
1,2,3,8,9-pentachlorodibenzofuran $C_{12}H_3Cl_5O$ (PCDF-12389) [83704-54-5]	2.0 1.1		Saçan et al. (2005) Govers and Krop (1998)	Q Q	
1,2,4,6,7-pentachlorodibenzofuran $C_{12}H_3Cl_5O$ (PCDF-12467) [83704-50-1]	5.8×10^{-1}		Govers and Krop (1998)	Q	
1,2,4,6,8-pentachlorodibenzofuran $C_{12}H_3Cl_5O$ (PCDF-12468) [69698-57-3]	1.0		Govers and Krop (1998)	Q	
1,2,4,6,9-pentachlorodibenzofuran $C_{12}H_3Cl_5O$ (PCDF-12469) [70648-24-7]	1.5		Govers and Krop (1998)	Q	
1,2,4,7,8-pentachlorodibenzofuran $C_{12}H_3Cl_5O$ (PCDF-12478) [58802-15-6]	6.2×10^{-1}		Govers and Krop (1998)	Q	
1,2,4,7,9-pentachlorodibenzofuran $C_{12}H_3Cl_5O$ (PCDF-12479) [71998-74-8]	9.8×10^{-1}		Govers and Krop (1998)	Q	
1,2,4,8,9-pentachlorodibenzofuran $C_{12}H_3Cl_5O$ (PCDF-12489) [70648-23-6]	1.3		Govers and Krop (1998)	Q	
1,2,6,7,9-pentachlorodibenzofuran $C_{12}H_3Cl_5O$ (PCDF-12679) [70872-82-1]	7.9×10^{-1}		Govers and Krop (1998)	Q	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1,3,4,6,7-pentachlorodibenzofuran $C_{12}H_3Cl_5O$ (PCDF-13467) [83704-36-3]	8.9×10^{-1}		Govers and Krop (1998)	Q	
1,3,4,6,8-pentachlorodibenzofuran $C_{12}H_3Cl_5O$ (PCDF-13468) [83704-55-6]	1.0		Govers and Krop (1998)	Q	
1,3,4,6,9-pentachlorodibenzofuran $C_{12}H_3Cl_5O$ (PCDF-13469) [70648-15-6]	1.2		Govers and Krop (1998)	Q	
1,3,4,7,8-pentachlorodibenzofuran $C_{12}H_3Cl_5O$ (PCDF-13478) [58802-16-7]	7.1×10^{-1}		Govers and Krop (1998)	Q	
1,3,4,7,9-pentachlorodibenzofuran $C_{12}H_3Cl_5O$ (PCDF-13479) [70648-20-3]	9.5×10^{-1}		Govers and Krop (1998)	Q	
1,3,6,7,8-pentachlorodibenzofuran $C_{12}H_3Cl_5O$ (PCDF-13678) [70648-21-4]	7.6×10^{-1}		Govers and Krop (1998)	Q	
1,4,6,7,8-pentachlorodibenzofuran $C_{12}H_3Cl_5O$ (PCDF-14678)	1.1		Govers and Krop (1998)	Q	
2,3,4,6,7-pentachlorodibenzofuran $C_{12}H_3Cl_5O$ (PCDF-23467) [57117-43-8]	6.9×10^{-1}		Govers and Krop (1998)	Q	
2,3,4,6,8-pentachlorodibenzofuran $C_{12}H_3Cl_5O$ (PCDF-23468) [67481-22-5]	6.6×10^{-1}		Govers and Krop (1998)	Q	
2,3,4,7,8-pentachlorodibenzofuran $C_{12}H_3Cl_5O$ (PCDF-23478) [57117-31-4]	2.0 2.0 1.7 2.3×10^{-3} 1.6 3.9×10^{-1}	 2900 	HSDB (2015) Mackay et al. (2006b) Govers and Krop (1998) Paasivirta et al. (1999) Saçan et al. (2005) Govers and Krop (1998)	V V V T Q Q	
2,3,4,8,9-pentachlorodibenzofuran $C_{12}H_3Cl_5O$ (PCDF-23489)	5.2×10^{-1}		Govers and Krop (1998)	Q	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1,2,3,4,6,7-hexachlorodibenzofuran $C_{12}H_2Cl_6O$ (PCDF-123467) [79060-60-9]	6.8×10^{-1}		Govers and Krop (1998)	Q	
1,2,3,4,6,8-hexachlorodibenzofuran $C_{12}H_2Cl_6O$ (PCDF-123468) [69698-60-8]	2.4×10^{-4} 9.8×10^{-1}	2300	Paasivirta et al. (1999) Govers and Krop (1998)	T Q	
1,2,3,4,6,9-hexachlorodibenzofuran $C_{12}H_2Cl_6O$ (PCDF-123469) [91538-83-9]	1.8		Govers and Krop (1998)	Q	
1,2,3,4,7,8-hexachlorodibenzofuran $C_{12}H_2Cl_6O$ (PCDF-123478) [70648-26-9]	6.9×10^{-1} 3.8×10^{-1} 4.1×10^{-4} 2.0 5.2×10^{-1}	 2400	Mackay et al. (2006b) Govers and Krop (1998) Paasivirta et al. (1999) Saçan et al. (2005) Govers and Krop (1998)	V V T Q Q	
1,2,3,4,7,9-hexachlorodibenzofuran $C_{12}H_2Cl_6O$ (PCDF-123479) [91538-84-0]	1.1		Govers and Krop (1998)	Q	
1,2,3,4,8,9-hexachlorodibenzofuran $C_{12}H_2Cl_6O$ (PCDF-123489) [92341-07-6]	2.7 1.1		Saçan et al. (2005) Govers and Krop (1998)	Q Q	
1,2,3,6,7,8-hexachlorodibenzofuran $C_{12}H_2Cl_6O$ (PCDF-123678) [57117-44-9]	9.1×10^{-1} 1.1×10^{-3} 2.2 5.2×10^{-1}	 3300	Govers and Krop (1998) Paasivirta et al. (1999) Saçan et al. (2005) Govers and Krop (1998)	V T Q Q	
1,2,3,6,7,9-hexachlorodibenzofuran $C_{12}H_2Cl_6O$ (PCDF-123679) [92341-06-5]	1.0		Govers and Krop (1998)	Q	
1,2,3,6,8,9-hexachlorodibenzofuran $C_{12}H_2Cl_6O$ (PCDF-123689) [75198-38-8]	1.3		Govers and Krop (1998)	Q	
1,2,3,7,8,9-hexachlorodibenzofuran $C_{12}H_2Cl_6O$ (PCDF-123789) [72918-21-9]	6.3×10^{-4} 2.6 1.0	2600	Paasivirta et al. (1999) Saçan et al. (2005) Govers and Krop (1998)	T Q Q	
1,2,4,6,7,8-hexachlorodibenzofuran $C_{12}H_2Cl_6O$ (PCDF-124678) [67562-40-7]	3.2×10^{-4} 9.3×10^{-1}	2300	Paasivirta et al. (1999) Govers and Krop (1998)	T Q	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1,2,4,6,7,9-hexachlorodibenzofuran $C_{12}H_2Cl_6O$ (PCDF-124679) [75627-02-0]	1.5		Govers and Krop (1998)	Q	
1,2,4,6,8,9-hexachlorodibenzofuran $C_{12}H_2Cl_6O$ (PCDF-124689) [69698-59-5]	2.2×10^{-4} 2.4	2600	Paasivirta et al. (1999) Govers and Krop (1998)	T Q	
1,3,4,6,7,8-hexachlorodibenzofuran $C_{12}H_2Cl_6O$ (PCDF-134678) [71998-75-9]	1.1		Govers and Krop (1998)	Q	
1,3,4,6,7,9-hexachlorodibenzofuran $C_{12}H_2Cl_6O$ (PCDF-134679) [92341-05-4]	1.6		Govers and Krop (1998)	Q	
2,3,4,6,7,8-hexachlorodibenzofuran $C_{12}H_2Cl_6O$ (PCDF-234678) [60851-34-5]	3.6×10^{-4} 3.1 5.6×10^{-1}	2600	Paasivirta et al. (1999) Saçan et al. (2005) Govers and Krop (1998)	T Q Q	
1,2,3,4,6,7,8-heptachlorodibenzofuran $C_{12}HCl_7O$ (PCDF-1234678) [67562-39-4]	7.0×10^{-1} 2.9×10^{-1} 5.4×10^{-5} 3.9 7.1×10^{-1}	 1600	Mackay et al. (2006b) Govers and Krop (1998) Paasivirta et al. (1999) Saçan et al. (2005) Govers and Krop (1998)	V V T Q Q	
1,2,3,4,6,7,9-heptachlorodibenzofuran $C_{12}HCl_7O$ (PCDF-1234679) [70648-25-8]	1.5		Govers and Krop (1998)	Q	
1,2,3,4,6,8,9-heptachlorodibenzofuran $C_{12}HCl_7O$ (PCDF-1234689) [69698-58-4]	3.4×10^{-4} 1.9	1800	Paasivirta et al. (1999) Govers and Krop (1998)	T Q	
1,2,3,4,7,8,9-heptachlorodibenzofuran $C_{12}HCl_7O$ (PCDF-1234789) [55673-89-7]	5.5×10^{-4} 3.2 1.0	2100	Paasivirta et al. (1999) Saçan et al. (2005) Govers and Krop (1998)	T Q Q	
octachlorodibenzofuran $C_{12}Cl_8O$ (PCDF-12346789) [39001-02-0]	 7.6×10^{-1} 2.3×10^{-4} 4.9 1.3	 2400	Mackay et al. (2006b) Govers and Krop (1998) Paasivirta et al. (1999) Saçan et al. (2005) Govers and Krop (1998)	V V T Q Q	256

Polychlorinated dibenzo-p-dioxins (PCDDs)

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1-chlorodibenzo[b,e][1,4]dioxin	1.6×10^{-1}		Mackay et al. (2006b)	V	
$C_{12}H_7ClO_2$	2.5×10^{-2}		Saçan et al. (2005)	V	
(PCDD-1)	1.6×10^{-1}		Govers and Krop (1998)	V	
[39227-53-7]	1.2×10^{-1}		Shiu et al. (1988)	V	
		7100	Kühne et al. (2005)	Q	
	6.8×10^{-2}		Saçan et al. (2005)	Q	
	1.3×10^{-1}		Wang and Wong (2002)	Q	212
	1.7×10^{-1}		Govers and Krop (1998)	Q	
		6500	Kühne et al. (2005)	?	
2-chlorodibenzo[b,e][1,4]dioxin	7.9×10^{-2}		Mackay et al. (2006b)	V	
$C_{12}H_7ClO_2$	7.9×10^{-2}		Govers and Krop (1998)	V	
(PCDD-2)	6.7×10^{-2}		Shiu et al. (1988)	V	
[39227-54-8]	9.8×10^{-2}		Saçan et al. (2005)	Q	
	1.3×10^{-1}		Wang and Wong (2002)	Q	212
	2.2×10^{-1}		Govers and Krop (1998)	Q	
1,2-dichlorodibenzo[b,e][1,4]dioxin	2.8×10^{-1}		Wang and Wong (2002)	Q	212
$C_{12}H_6Cl_2O_2$	3.2×10^{-1}		Govers and Krop (1998)	Q	
(PCDD-12)					
1,3-dichlorodibenzo[b,e][1,4]dioxin	2.2×10^{-1}		Wang and Wong (2002)	Q	212
$C_{12}H_6Cl_2O_2$	3.8×10^{-1}		Govers and Krop (1998)	Q	
(PCDD-13)					
[50585-39-2]					
1,4-dichlorodibenzo[b,e][1,4]dioxin	2.4×10^{-1}		Wang and Wong (2002)	Q	212
$C_{12}H_6Cl_2O_2$	3.2×10^{-1}		Govers and Krop (1998)	Q	
(PCDD-14)					
1,6-dichlorodibenzo[b,e][1,4]dioxin	2.5×10^{-1}		Wang and Wong (2002)	Q	212
$C_{12}H_6Cl_2O_2$	3.2×10^{-1}		Govers and Krop (1998)	Q	
(PCDD-16)					
[38178-38-0]					
1,7-dichlorodibenzo[b,e][1,4]dioxin	2.6×10^{-1}		Wang and Wong (2002)	Q	212
$C_{12}H_6Cl_2O_2$	3.6×10^{-1}		Govers and Krop (1998)	Q	
(PCDD-17)					
1,8-dichlorodibenzo[b,e][1,4]dioxin	2.6×10^{-1}		Wang and Wong (2002)	Q	212
$C_{12}H_6Cl_2O_2$	3.8×10^{-1}		Govers and Krop (1998)	Q	
(PCDD-18)					
1,9-dichlorodibenzo[b,e][1,4]dioxin	2.6×10^{-1}		Wang and Wong (2002)	Q	212
$C_{12}H_6Cl_2O_2$	5.4×10^{-1}		Govers and Krop (1998)	Q	
(PCDD-19)					
2,3-dichlorodibenzo[b,e][1,4]dioxin	1.5×10^{-1}		Mackay et al. (2006b)	V	
$C_{12}H_6Cl_2O_2$	1.5×10^{-1}		Saçan et al. (2005)	V	
(PCDD-23)	1.5×10^{-1}		Govers and Krop (1998)	V	
[29446-15-9]	1.5×10^{-1}		Shiu et al. (1988)	V	
	2.5×10^{-1}		Saçan et al. (2005)	Q	
	2.6×10^{-1}		Wang and Wong (2002)	Q	212
	4.0×10^{-1}		Govers and Krop (1998)	Q	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,7-dichlorodibenzo[b,e][1,4]dioxin	1.7×10^{-1}		Santl et al. (1994)	M	
$C_{12}H_6Cl_2O_2$			Mackay et al. (2006b)	V	256
(PCDD-27)	1.2×10^{-1}		Govers and Krop (1998)	V	
[33857-26-0]	1.2×10^{-1}		Shiu et al. (1988)	V	
	7.3×10^{-1}		Hilal et al. (2008)	Q	
	1.0×10^{-1}		Saçan et al. (2005)	Q	
	2.6×10^{-1}		Wang and Wong (2002)	Q	212
	3.5×10^{-1}		Govers and Krop (1998)	Q	
2,8-dichlorodibenzo[b,e][1,4]dioxin	4.7×10^{-1}		Mackay et al. (2006b)	V	
$C_{12}H_6Cl_2O_2$	4.7×10^{-1}		Govers and Krop (1998)	V	
(PCDD-28)	4.7×10^{-1}		Shiu et al. (1988)	V	
[38964-22-6]	1.7×10^{-1}		Saçan et al. (2005)	Q	
	2.6×10^{-1}		Wang and Wong (2002)	Q	212
	4.4×10^{-1}		Govers and Krop (1998)	Q	
1,2,3-trichlorodibenzo[b,e][1,4]dioxin	5.0×10^{-1}		Wang and Wong (2002)	Q	212
$C_{12}H_5Cl_3O_2$	5.6×10^{-1}		Govers and Krop (1998)	Q	
(PCDD-123)					
1,2,4-trichlorodibenzo[b,e][1,4]dioxin	2.7×10^{-1}		Santl et al. (1994)	M	
$C_{12}H_5Cl_3O_2$	2.9×10^{-1}		Mackay et al. (2006b)	V	
(PCDD-124)	2.6×10^{-1}		Govers and Krop (1998)	V	
[39227-58-2]	2.6×10^{-1}		Shiu et al. (1988)	V	
	1.3		Hilal et al. (2008)	Q	
	3.0×10^{-1}		Saçan et al. (2005)	Q	
	4.4×10^{-1}		Wang and Wong (2002)	Q	212
	5.5×10^{-1}		Govers and Krop (1998)	Q	
			Fogg and Sangster (2003)	W	275
1,2,6-trichlorodibenzo[b,e][1,4]dioxin	5.0×10^{-1}		Wang and Wong (2002)	Q	212
$C_{12}H_5Cl_3O_2$	5.1×10^{-1}		Govers and Krop (1998)	Q	
(PCDD-126)					
1,2,7-trichlorodibenzo[b,e][1,4]dioxin	5.1×10^{-1}		Wang and Wong (2002)	Q	212
$C_{12}H_5Cl_3O_2$	4.6×10^{-1}		Govers and Krop (1998)	Q	
(PCDD-127)					
1,2,8-trichlorodibenzo[b,e][1,4]dioxin	5.1×10^{-1}		Wang and Wong (2002)	Q	212
$C_{12}H_5Cl_3O_2$	6.0×10^{-1}		Govers and Krop (1998)	Q	
(PCDD-128)					
1,2,9-trichlorodibenzo[b,e][1,4]dioxin	5.2×10^{-1}		Wang and Wong (2002)	Q	212
$C_{12}H_5Cl_3O_2$	9.1×10^{-1}		Govers and Krop (1998)	Q	
(PCDD-129)					
1,3,6-trichlorodibenzo[b,e][1,4]dioxin	4.2×10^{-1}		Wang and Wong (2002)	Q	212
$C_{12}H_5Cl_3O_2$	6.3×10^{-1}		Govers and Krop (1998)	Q	
(PCDD-136)					
1,3,7-trichlorodibenzo[b,e][1,4]dioxin	4.3×10^{-1}		Wang and Wong (2002)	Q	212
$C_{12}H_5Cl_3O_2$	6.8×10^{-1}		Govers and Krop (1998)	Q	
(PCDD-137)					
[67028-17-5]					

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1,3,8-trichlorodibenzo[b,e][1,4]dioxin	4.3×10^{-1}		Wang and Wong (2002)	Q	212
$C_{12}H_5Cl_3O_2$	5.6×10^{-1}		Govers and Krop (1998)	Q	
(PCDD-138)					
1,3,9-trichlorodibenzo[b,e][1,4]dioxin	4.4×10^{-1}		Wang and Wong (2002)	Q	212
$C_{12}H_5Cl_3O_2$	1.0		Govers and Krop (1998)	Q	
(PCDD-139)					
1,4,6-trichlorodibenzo[b,e][1,4]dioxin	4.4×10^{-1}		Wang and Wong (2002)	Q	212
$C_{12}H_5Cl_3O_2$	9.3×10^{-1}		Govers and Krop (1998)	Q	
(PCDD-146)					
1,4,7-trichlorodibenzo[b,e][1,4]dioxin	4.5×10^{-1}		Wang and Wong (2002)	Q	212
$C_{12}H_5Cl_3O_2$	6.0×10^{-1}		Govers and Krop (1998)	Q	
(PCDD-147)					
1,7,8-trichlorodibenzo[b,e][1,4]dioxin	4.9×10^{-1}		Wang and Wong (2002)	Q	212
$C_{12}H_5Cl_3O_2$	6.2×10^{-1}		Govers and Krop (1998)	Q	
(PCDD-178)					
2,3,7-trichlorodibenzo[b,e][1,4]dioxin	4.9×10^{-1}		Wang and Wong (2002)	Q	212
$C_{12}H_5Cl_3O_2$	5.6×10^{-1}		Govers and Krop (1998)	Q	
(PCDD-237)					
[33857-28-2]					
1,2,3,4-tetrachlorodibenzo[b,e][1,4]dioxin	5.0×10^{-1}		Santl et al. (1994)	M	
$C_{12}H_4Cl_4O_2$	2.7×10^{-1}		Mackay et al. (2006b)	V	
(PCDD-1234)	1.4		Mackay et al. (2006b)	V	
[30746-58-8]	3.3×10^{-1}		Govers and Krop (1998)	V	
	2.7×10^{-1}		Shiu et al. (1988)	V	
	1.4		Hilal et al. (2008)	Q	
	6.3×10^{-1}		Saçan et al. (2005)	Q	
	8.7×10^{-1}		Wang and Wong (2002)	Q	212
	7.4×10^{-1}		Govers and Krop (1998)	Q	
1,2,3,6-tetrachlorodibenzo[b,e][1,4]dioxin	8.7×10^{-1}		Wang and Wong (2002)	Q	212
$C_{12}H_4Cl_4O_2$	8.1×10^{-1}		Govers and Krop (1998)	Q	
(PCDD-1236)					
1,2,3,7-tetrachlorodibenzo[b,e][1,4]dioxin	1.3		Mackay et al. (2006b)	V	
$C_{12}H_4Cl_4O_2$	1.7		Govers and Krop (1998)	V	
(PCDD-1237)	1.3		Shiu et al. (1988)	V	
[67028-18-6]	1.7		Hilal et al. (2008)	Q	
	4.3×10^{-1}		Saçan et al. (2005)	Q	
	8.7×10^{-1}		Wang and Wong (2002)	Q	212
	6.8×10^{-1}		Govers and Krop (1998)	Q	
1,2,3,8-tetrachlorodibenzo[b,e][1,4]dioxin	8.7×10^{-1}		Wang and Wong (2002)	Q	212
$C_{12}H_4Cl_4O_2$	7.1×10^{-1}		Govers and Krop (1998)	Q	
(PCDD-1238)					
[53555-02-5]					

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1,2,3,9- tetrachlorodibenzo[b,e][1,4]dioxin $C_{12}H_4Cl_4O_2$ (PCDD-1239)	9.1×10^{-1} 1.4		Wang and Wong (2002) Govers and Krop (1998)	Q Q	212
1,2,4,6- tetrachlorodibenzo[b,e][1,4]dioxin $C_{12}H_4Cl_4O_2$ (PCDD-1246)	8.1×10^{-1} 1.4		Wang and Wong (2002) Govers and Krop (1998)	Q Q	212
1,2,4,7- tetrachlorodibenzo[b,e][1,4]dioxin $C_{12}H_4Cl_4O_2$ (PCDD-1247)	7.8×10^{-1} 7.1×10^{-1}		Wang and Wong (2002) Govers and Krop (1998)	Q Q	212
1,2,4,8- tetrachlorodibenzo[b,e][1,4]dioxin $C_{12}H_4Cl_4O_2$ (PCDD-1248)	7.8×10^{-1} 8.9×10^{-1}		Wang and Wong (2002) Govers and Krop (1998)	Q Q	212
1,2,4,9- tetrachlorodibenzo[b,e][1,4]dioxin $C_{12}H_4Cl_4O_2$ (PCDD-1249)	8.1×10^{-1} 1.5		Wang and Wong (2002) Govers and Krop (1998)	Q Q	212
1,2,6,7- tetrachlorodibenzo[b,e][1,4]dioxin $C_{12}H_4Cl_4O_2$ (PCDD-1267)	9.5×10^{-1} 5.8×10^{-1}		Wang and Wong (2002) Govers and Krop (1998)	Q Q	212
1,2,6,8- tetrachlorodibenzo[b,e][1,4]dioxin $C_{12}H_4Cl_4O_2$ (PCDD-1268)	8.1×10^{-1} 8.9×10^{-1}		Wang and Wong (2002) Govers and Krop (1998)	Q Q	212
1,2,6,9- tetrachlorodibenzo[b,e][1,4]dioxin $C_{12}H_4Cl_4O_2$ (PCDD-1269)	8.7×10^{-1} 1.4		Wang and Wong (2002) Govers and Krop (1998)	Q Q	212
1,2,7,8- tetrachlorodibenzo[b,e][1,4]dioxin $C_{12}H_4Cl_4O_2$ (PCDD-1278) [34816-53-0]	7.8×10^{-1} 6.8×10^{-1}		Wang and Wong (2002) Govers and Krop (1998)	Q Q	212
1,2,7,9- tetrachlorodibenzo[b,e][1,4]dioxin $C_{12}H_4Cl_4O_2$ (PCDD-1279)	8.3×10^{-1} 1.2		Wang and Wong (2002) Govers and Krop (1998)	Q Q	212
1,2,8,9- tetrachlorodibenzo[b,e][1,4]dioxin $C_{12}H_4Cl_4O_2$ (PCDD-1289)	9.8×10^{-1} 1.3		Wang and Wong (2002) Govers and Krop (1998)	Q Q	212

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1,3,6,8- tetrachlorodibenzo[b,e][1,4]dioxin	1.4×10^{-1}		Webster et al. (1985)	M	
$C_{12}H_4Cl_4O_2$	1.4		Govers and Krop (1998)	V	
(PCDD-1368)	1.4		Shiu et al. (1988)	V	
[33423-92-6]	1.2		Hilal et al. (2008)	Q	
	2.9×10^{-1}		Saçan et al. (2005)	Q	
	6.8×10^{-1}		Wang and Wong (2002)	Q	212
	8.7×10^{-1}		Govers and Krop (1998)	Q	
1,3,6,9- tetrachlorodibenzo[b,e][1,4]dioxin	7.4×10^{-1}		Wang and Wong (2002)	Q	212
$C_{12}H_4Cl_4O_2$ (PCDD-1369)	1.7		Govers and Krop (1998)	Q	
1,3,7,8- tetrachlorodibenzo[b,e][1,4]dioxin	7.8×10^{-1}		Wang and Wong (2002)	Q	212
$C_{12}H_4Cl_4O_2$ (PCDD-1378) [50585-46-1]	7.9×10^{-1}		Govers and Krop (1998)	Q	
1,3,7,9- tetrachlorodibenzo[b,e][1,4]dioxin	7.1×10^{-1}		Wang and Wong (2002)	Q	212
$C_{12}H_4Cl_4O_2$ (PCDD-1379) [62470-53-5]	1.7		Govers and Krop (1998)	Q	
1,4,6,9- tetrachlorodibenzo[b,e][1,4]dioxin	7.9×10^{-1}		Wang and Wong (2002)	Q	212
$C_{12}H_4Cl_4O_2$ (PCDD-1469)	2.6		Govers and Krop (1998)	Q	
1,4,7,8- tetrachlorodibenzo[b,e][1,4]dioxin	8.1×10^{-1}		Wang and Wong (2002)	Q	212
$C_{12}H_4Cl_4O_2$ (PCDD-1478)	9.1×10^{-1}		Govers and Krop (1998)	Q	
2,3,7,8- tetrachlorodibenzo[b,e][1,4]dioxin	2.0×10^{-1}		HSDB (2015)	V	
$C_{12}H_4Cl_4O_2$	3.0×10^{-1}		Mackay et al. (2006b)	V	
(PCDD-2378; TCDD)	3.0×10^{-1}		Govers and Krop (1998)	V	
[1746-01-6]	5.8×10^{-1}		McLachlan et al. (1990)	V	147
	6.1×10^{-1}		Shiu et al. (1988)	V	
	3.0×10^{-1}		Shiu et al. (1988)	V	
	9.7×10^{-2}		Shiu et al. (1988)	V	
	6.3×10^{-1}		Podoll et al. (1986)	V	
	4.7		Schroy et al. (1985)	V	
	2.6×10^{-4}	3600	Paasivirta et al. (1999)	T	
	3.3×10^{-1}		Saçan et al. (2005)	Q	
	8.9×10^{-1}		Wang and Wong (2002)	Q	212
	6.2×10^{-1}		Govers and Krop (1998)	Q	
1,2,3,4,6- pentachlorodibenzo[b,e][1,4]dioxin	1.5		Wang and Wong (2002)	Q	212
$C_{12}H_3Cl_5O_2$ (PCDD-12346)	1.8		Govers and Krop (1998)	Q	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1,2,3,4,7- pentachlorodibenzo[b,e][1,4]dioxin $C_{12}H_3Cl_5O_2$ (PCDD-12347) [39227-61-7]	3.8		Mackay et al. (2006b)	V	
	4.5		Govers and Krop (1998)	V	
	3.8		Shiu et al. (1988)	V	
	7.0×10^{-1}		Saçan et al. (2005)	Q	
	1.4		Wang and Wong (2002)	Q	212
	8.1×10^{-1}		Govers and Krop (1998)	Q	
1,2,3,6,7- pentachlorodibenzo[b,e][1,4]dioxin $C_{12}H_3Cl_5O_2$ (PCDD-12367)	1.5		Wang and Wong (2002)	Q	212
	7.8×10^{-1}		Govers and Krop (1998)	Q	
1,2,3,6,8- pentachlorodibenzo[b,e][1,4]dioxin $C_{12}H_3Cl_5O_2$ (PCDD-12368)	1.3		Wang and Wong (2002)	Q	212
	9.5×10^{-1}		Govers and Krop (1998)	Q	
1,2,3,7,8- pentachlorodibenzo[b,e][1,4]dioxin $C_{12}H_3Cl_5O_2$ (PCDD-12378) [40321-76-4]	5.2×10^{-5}	2500	Paasivirta et al. (1999)	T	
	6.4×10^{-1}		Saçan et al. (2005)	Q	
	1.5		Wang and Wong (2002)	Q	212
	6.8×10^{-1}		Govers and Krop (1998)	Q	
1,2,4,6,7- pentachlorodibenzo[b,e][1,4]dioxin $C_{12}H_3Cl_5O_2$ (PCDD-12467)	1.4		Wang and Wong (2002)	Q	212
	1.4		Govers and Krop (1998)	Q	
1,2,4,6,8- pentachlorodibenzo[b,e][1,4]dioxin $C_{12}H_3Cl_5O_2$ (PCDD-12468)	1.2		Wang and Wong (2002)	Q	212
	2.1		Govers and Krop (1998)	Q	
1,2,4,6,9- pentachlorodibenzo[b,e][1,4]dioxin $C_{12}H_3Cl_5O_2$ (PCDD-12469)	1.3		Wang and Wong (2002)	Q	212
	3.6		Govers and Krop (1998)	Q	
1,2,4,7,8- pentachlorodibenzo[b,e][1,4]dioxin $C_{12}H_3Cl_5O_2$ (PCDD-12478) [58802-08-7]	1.3		Wang and Wong (2002)	Q	212
	9.1×10^{-1}		Govers and Krop (1998)	Q	
1,3,4,6,7- pentachlorodibenzo[b,e][1,4]dioxin $C_{12}H_3Cl_5O_2$ (PCDD-13467)	1.4		Wang and Wong (2002)	Q	212
	1.9		Govers and Krop (1998)	Q	
1,3,4,6,8- pentachlorodibenzo[b,e][1,4]dioxin $C_{12}H_3Cl_5O_2$ (PCDD-13468)	1.2		Wang and Wong (2002)	Q	212
	1.8		Govers and Krop (1998)	Q	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1,4,6,7,8- pentachlorodibenzo[b,e][1,4]dioxin $C_{12}H_3Cl_5O_2$ (PCDD-14678)	1.4		Wang and Wong (2002)	Q	212
	1.9		Govers and Krop (1998)	Q	
2,3,4,6,7- pentachlorodibenzo[b,e][1,4]dioxin $C_{12}H_3Cl_5O_2$ (PCDD-23467)	1.5		Wang and Wong (2002)	Q	212
	1.4		Govers and Krop (1998)	Q	
2,3,4,6,8- pentachlorodibenzo[b,e][1,4]dioxin $C_{12}H_3Cl_5O_2$ (PCDD-23468)	1.3		Wang and Wong (2002)	Q	212
	1.5		Govers and Krop (1998)	Q	
1,2,3,4,6,7- hexachlorodibenzo[b,e][1,4]dioxin $C_{12}H_2Cl_6O_2$ (PCDD-123467)	2.5		Wang and Wong (2002)	Q	212
	1.5		Govers and Krop (1998)	Q	
1,2,3,4,6,8- hexachlorodibenzo[b,e][1,4]dioxin $C_{12}H_2Cl_6O_2$ (PCDD-123468)	2.2		Wang and Wong (2002)	Q	212
	1.8		Govers and Krop (1998)	Q	
1,2,3,4,6,9- hexachlorodibenzo[b,e][1,4]dioxin $C_{12}H_2Cl_6O_2$ (PCDD-123469)	2.3		Wang and Wong (2002)	Q	212
	4.0		Govers and Krop (1998)	Q	
1,2,3,4,7,8- hexachlorodibenzo[b,e][1,4]dioxin $C_{12}H_2Cl_6O_2$ (PCDD-123478) [39227-28-6]	3.0		Mackay et al. (2006b)	V	
	1.6		Govers and Krop (1998)	V	
	2.2×10^{-1}		Shiu et al. (1988)	V	
	1.2×10^{-4}	2900	Paasivirta et al. (1999)	T	
		8800	Kühne et al. (2005)	Q	
	7.7×10^{-1}		Saçan et al. (2005)	Q	
	2.3		Wang and Wong (2002)	Q	212
	6.9×10^{-1}		Govers and Krop (1998)	Q	
		9400	Kühne et al. (2005)	?	
1,2,3,6,7,8- hexachlorodibenzo[b,e][1,4]dioxin $C_{12}H_2Cl_6O_2$ (PCDD-123678) [57653-85-7]	6.2×10^{-5}	2800	Paasivirta et al. (1999)	T	
	5.2		HSDB (2015)	Q	38
	7.4×10^{-1}		Saçan et al. (2005)	Q	
	2.4		Wang and Wong (2002)	Q	212
	6.9×10^{-1}		Govers and Krop (1998)	Q	
1,2,3,7,8,9- hexachlorodibenzo[b,e][1,4]dioxin $C_{12}H_2Cl_6O_2$ (PCDD-123789) [19408-74-3]	2.5×10^{-4}	2700	Paasivirta et al. (1999)	T	
	5.2		HSDB (2015)	Q	38
	1.1		Saçan et al. (2005)	Q	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1,2,4,6,7,8- hexachlorodibenzo[b,e][1,4]dioxin	2.2		Wang and Wong (2002)	Q	212
$C_{12}H_2Cl_6O_2$ (PCDD-124678)	1.7		Govers and Krop (1998)	Q	
1,2,4,6,7,9- hexachlorodibenzo[b,e][1,4]dioxin	2.1		Wang and Wong (2002)	Q	212
$C_{12}H_2Cl_6O_2$ (PCDD-124679) [39227-62-8]	3.5		Govers and Krop (1998)	Q	
1,3,4,6,7,8- hexachlorodibenzo[b,e][1,4]dioxin	2.2		Wang and Wong (2002)	Q	212
$C_{12}H_2Cl_6O_2$ (PCDD-134678)	1.8		Govers and Krop (1998)	Q	
1,3,4,6,7,9- hexachlorodibenzo[b,e][1,4]dioxin	2.0		Wang and Wong (2002)	Q	212
$C_{12}H_2Cl_6O_2$ (PCDD-134679)	4.4		Govers and Krop (1998)	Q	
2,3,4,6,7,8- hexachlorodibenzo[b,e][1,4]dioxin	2.4		Wang and Wong (2002)	Q	212
$C_{12}H_2Cl_6O_2$ (PCDD-234678)	1.2		Govers and Krop (1998)	Q	
1,2,3,4,6,7,8- heptachlorodibenzo[b,e][1,4]dioxin	7.5		Mackay et al. (2006b)	V	
$C_{12}HCl_7O_2$	2.3		Govers and Krop (1998)	V	
(PCDD-1234678)	7.5		Shiu et al. (1988)	V	
[35822-46-9]	7.5×10^{-5}	2400	Paasivirta et al. (1999)	T	
	4.5×10^{-1}		HSDB (2015)	Q	216
	1.4		Saçan et al. (2005)	Q	
	3.6		Wang and Wong (2002)	Q	212
	1.2		Govers and Krop (1998)	Q	
1,2,3,4,6,7,9- heptachlorodibenzo[b,e][1,4]dioxin	3.4		Wang and Wong (2002)	Q	212
$C_{12}HCl_7O_2$ (PCDD-1234679) [58200-70-7]	3.2		Govers and Krop (1998)	Q	
octachlorodibenzo[b,e][1,4]dioxin	1.5		HSDB (2015)	V	
$C_{12}Cl_8O_2$	1.5		Mackay et al. (2006b)	V	
(PCDD-12346789)	7.6×10^{-1}		Govers and Krop (1998)	V	
[3268-87-9]	1.5		Shiu et al. (1988)	V	
	1.1×10^{-5}	2300	Paasivirta et al. (1999)	T	
		9600	Kühne et al. (2005)	Q	
	1.7		Saçan et al. (2005)	Q	
	5.2		Wang and Wong (2002)	Q	212
	1.9		Govers and Krop (1998)	Q	
		9500	Kühne et al. (2005)	?	

Chlorocarbons with nitrogen (C, H, O, N, Cl)

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
cyanogen chloride NCCl [506-77-4]	1.2×10^{-2} 5.1×10^{-3}		Hilal et al. (2008) Yaws (1999)	Q ?	
N,N-dichloromethylamine CH_3NCl_2 [7651-91-4]	3.3×10^{-3}	4300	Cimetiere and De Laat (2009)	M	
chloroacetonitrile C_2H_2ClN [107-14-2]	9.1×10^{-1}	 4600 5400	HSDB (2015) Kühne et al. (2005) Kühne et al. (2005)	Q Q ?	182
dichloroacetonitrile C_2HCl_2N [3018-12-0]	2.6		HSDB (2015)	Q	38
trichloroacetonitrile C_2Cl_3N [545-06-2]	7.6 7.3 1.9×10^{-2} 3.9×10^{-3} 1.0×10^{-2}		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q Q	38 107, 108 107, 109 107, 110 107, 111
tetramethylammonium chloride $C_4H_{12}ClN$ [75-57-0]	2.3×10^{6}		HSDB (2015)	Q	38
metformin hydrochloride $C_4H_{12}ClN_5$ [1115-70-4]	1.3×10^{10}		HSDB (2015)	Q	38
tris(2-chloroethyl)amine $C_6H_{12}Cl_3N$ [555-77-1]	5.3×10^{-1}		HSDB (2015)	V	
bis(2-chloroethyl)ethylamine $C_6H_{13}Cl_2N$ (ethylbis(2-chloroethyl)amine) [538-07-8]	2.9×10^{-2}		HSDB (2015)	V	
cetrimonium chloride $C_{19}H_{42}ClN$ (trimethylhexadecylammonium chloride) [112-02-7]	3.4×10^{4}		HSDB (2015)	Q	38
dimethyldioctadecylammonium chloride $C_{38}H_{80}ClN$ [107-64-2]	1.5×10^{2}		HSDB (2015)	Q	38
1-amino-2-chlorobenzene C_6H_6ClN (*o*-chloroaniline) [95-51-2]	1.8 1.3 1.3 1.3 2.4 1.6 2.3		HSDB (2015) Mackay et al. (2006d) Lide and Frederikse (1995) Mackay et al. (1995) Meylan and Howard (1991) Abraham et al. (1994a) Hilal et al. (2008)	V V V V V R Q	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	5.4		Nirmalakhandan et al. (1997)	Q	
	7.0		Meylan and Howard (1991)	Q	
1-amino-3-chlorobenzene	9.8		Altschuh et al. (1999)	M	
C_6H_6ClN	4.5		Mackay et al. (2006d)	V	
(m-chloroaniline)	4.5		Mackay et al. (1995)	V	
[108-42-9]	7.5		Abraham et al. (1994a)	R	
	7.7		Hilal et al. (2008)	Q	
	5.3		Nirmalakhandan et al. (1997)	Q	
1-amino-4-chlorobenzene	3.2		HSDB (2015)	V	
C_6H_6ClN	1.0×10^{1}		Mackay et al. (2006d)	V	
(p-chloroaniline)	9.1×10^{-1}		Lide and Frederikse (1995)	V	
[106-47-8]	1.0×10^{1}		Mackay et al. (1995)	V	
	2.5×10^{1}		Meylan and Howard (1991)	V	
	8.6		Abraham et al. (1994a)	R	
	9.2×10^{-1}		Howard (1989)	X	164
	8.6		Hilal et al. (2008)	Q	
	5.3		Nirmalakhandan et al. (1997)	Q	
	7.0		Meylan and Howard (1991)	Q	
2,3-dichlorobenzenamine $C_6H_5Cl_2N$ (2,3-dichloroaniline) [608-27-5]	6.2		HSDB (2015)	Q	38
2,4-dichlorobenzenamine $C_6H_5Cl_2N$ (2,4-dichloroaniline) [554-00-7]	6.2		HSDB (2015)	Q	38
3,4-dichlorobenzenamine	6.8×10^{-1}		HSDB (2015)	V	
$C_6H_5Cl_2N$	4.4×10^{-1}		Mackay et al. (2006d)	V	
(3,4-dichloroaniline)	4.4×10^{-1}		Mackay et al. (1995)	V	
[95-76-1]					
3,5-dichlorobenzenamine $C_6H_5Cl_2N$ (3,5-dichloroaniline) [626-43-7]	6.2		HSDB (2015)	Q	38
2,5-dichlorobenzenamine	6.2		HSDB (2015)	Q	38
$C_6H_5Cl_2N$	9.5		Zhang et al. (2010)	Q	107, 108
(2,5-dichloroaniline)	2.6		Zhang et al. (2010)	Q	107, 109
[95-82-9]	2.7		Zhang et al. (2010)	Q	107, 110
	1.9×10^{1}		Zhang et al. (2010)	Q	107, 111
2,4,5-trichlorobenzenamine	1.3×10^{1}		Zhang et al. (2010)	Q	107, 108
$C_6H_4Cl_3N$	2.4		Zhang et al. (2010)	Q	107, 109
[636-30-6]	9.5		Zhang et al. (2010)	Q	107, 110
	1.8×10^{1}		Zhang et al. (2010)	Q	107, 111

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,4,6-trichlorobenzenamine	7.4		HSDB (2015)	V	
$C_6H_4Cl_3N$	1.3×10^{1}		Zhang et al. (2010)	Q	107, 108
[634-93-5]	6.2×10^{-1}		Zhang et al. (2010)	Q	107, 109
	4.1×10^{-1}		Zhang et al. (2010)	Q	107, 110
	1.5×10^{1}		Zhang et al. (2010)	Q	107, 111
2,3,4,5,6-pentachloroaniline	2.3×10^{1}		HSDB (2015)	Q	38
$C_6H_2Cl_5N$					
[527-20-8]					
2,6-dichlorobenzenenitrile	4.8×10^{-1}	5400	Schoene and Steinhanses (1985)	M	
$C_6H_3Cl_2CN$	9.9×10^{-1}		HSDB (2015)	V	
(dichlobenil)	1.5		Mackay et al. (2006d)	V	
[1194-65-6]	1.4		Schüürmann (2000)	V	
	1.5		Suntio et al. (1988)	V	9
	1.4		Burkhard and Guth (1981)	V	
		6000	Kühne et al. (2005)	Q	
		5500	Kühne et al. (2005)	?	
(2,4,6-trichlorophenyl)hydrazine	3.1×10^{3}		Zhang et al. (2010)	Q	107, 108
$C_6H_5Cl_3N_2$	3.7×10^{1}		Zhang et al. (2010)	Q	107, 109
[5329-12-4]	1.1×10^{1}		Zhang et al. (2010)	Q	107, 110
	5.4×10^{3}		Zhang et al. (2010)	Q	107, 111
4-chlorobenzonitrile	2.5×10^{-1}		Zhang et al. (2010)	Q	107, 108
C_7H_4ClN	3.8×10^{-1}		Zhang et al. (2010)	Q	107, 109
[623-03-0]	1.6		Zhang et al. (2010)	Q	107, 110
	4.5×10^{-1}		Zhang et al. (2010)	Q	107, 111
3-chloro-2-methylbenzenamine	6.3		HSDB (2015)	Q	38
C_7H_8ClN					
[87-60-5]					
3-chloro-4-methylbenzenamine	4.9		HSDB (2015)	Q	38
C_7H_8ClN					
[95-74-9]					
4-chloro-2-methylbenzenamine	4.9		HSDB (2015)	Q	38
C_7H_8ClN					
[95-69-2]					
5-chloro-2-methylbenzenamine	6.3		HSDB (2015)	Q	216
C_7H_8ClN					
[95-79-4]					
2,4,5,6-tetrachloro-1,3-dicyanobenzene	5.0×10^{1}		Kawamoto and Urano (1989)	M	
$C_8Cl_4N_2$	1.7×10^{-2}		Mackay et al. (2006d)	V	
(chlorothalonil)	3.9×10^{1}		MacBean (2012b)	X	137
[1897-45-6]	4.5×10^{1}		Armbrust (2000)	C	
	6.5×10^{1}		Zhang et al. (2010)	Q	107, 108
	1.5		Zhang et al. (2010)	Q	107, 109
	6.9×10^{1}		Zhang et al. (2010)	Q	107, 110
	2.7×10^{1}		Zhang et al. (2010)	Q	107, 111
	5.8		Hilal et al. (2008)	Q	
	6.5×10^{1}		Meylan and Howard (1991)	Q	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2-chlorobenzalmalononitrile $C_{10}H_5ClN_2$ [2698-41-1]	9.9×10^{2}		HSDB (2015)	Q	38
benzyltrimethylammonium chloride $C_{10}H_{16}ClN$ [56-93-9]	2.9×10^{8}		HSDB (2015)	Q	38
chlordimeform $C_{10}H_{13}ClN_2$ [6164-98-3]	2.9×10^{1} 2.6×10^{1}		HSDB (2015) MacBean (2012a)	V ?	 9
4,4'-dichloroazobenzene $C_{12}H_8Cl_2N_2$ [1602-00-2]	1.2		HSDB (2015)	Q	38
bis(3,4-dichlorophenyl)diazene $C_{12}H_6Cl_4N_2$ (3,4,3',4'-tetrachloroazobenzene) [14047-09-7]	2.2		HSDB (2015)	Q	182
2-(*p*-chlorophenyl)-3-methylbutyronitrile $C_{11}H_{12}ClN$ [2012-81-9]	2.3 4.4 3.9 2.9×10^{-1}		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
3,3'-dichloro-(1,1'-biphenyl)-4,4'-diamine $C_{12}H_{10}Cl_2N_2$ (3,3'-dichlorobenzidine) [91-94-1]	2.0×10^{2} 2.0×10^{2} 1.2×10^{1} 3.5×10^{5}		Mackay et al. (2006d) Mackay et al. (1995) Mackay et al. (1995) HSDB (2015)	V V C Q	 38
4,4'-methylenebis(2-chlorobenzenamine) $C_{13}H_{12}Cl_2N_2$ [101-14-4]	9.0×10^{5} 3.0×10^{5} 3.4×10^{4} 2.9×10^{4} 9.7×10^{5}		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q Q	38 107, 108 107, 109 107, 110 107, 111
aniline, 4,4'-(imidocarbonyl)bis-(N,N-dimethyl)-, hydrochloride $C_{17}H_{22}ClN_3$ (auramine hydrochloride) [2465-27-2]	3.5×10^{10}		HSDB (2015)	Q	38
amitriptyline hydrochloride $C_{20}H_{24}ClN$ [549-18-8]	1.4×10^{2}		HSDB (2015)	Q	38
chlorhexidine $C_{22}H_{30}Cl_2N_{10}$ [55-56-1]	9.0×10^{24}		HSDB (2015)	Q	38
malachite green $C_{23}H_{25}ClN_2$ [569-64-2]	5.2×10^{8}		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
tetradecylbenzyldimethyl ammonium chloride $C_{23}H_{42}ClN$ [139-08-2]	7.6×10^{5}		HSDB (2015)	Q	38
stearyldimethylbenzylammonium chloride $C_{27}H_{50}ClN$ (benzyldimethylstearylammonium chloride) [122-19-0]	2.3×10^{5}		HSDB (2015)	Q	38
2,4,6-trichloro-1,3,5-triazine $C_3Cl_3N_3$ [108-77-0]	2.0×10^{1}		HSDB (2015)	Q	38
	2.0×10^{1}		Zhang et al. (2010)	Q	107, 108
	2.4×10^{1}		Zhang et al. (2010)	Q	107, 109
	3.1×10^{-1}		Zhang et al. (2010)	Q	107, 110
	7.9		Zhang et al. (2010)	Q	107, 111
2-chloropyridine C_5H_4ClN [109-09-1]	7.4×10^{-1}	5900	Arnett and Chawla (1979)	M	222
	5.8×10^{-1}		Hilal et al. (2008)	Q	
		6100	Kühne et al. (2005)	Q	
	1.5×10^{1}		Nirmalakhandan et al. (1997)	Q	
		6600	Kühne et al. (2005)	?	
3-chloropyridine C_5H_4ClN [626-60-8]	3.5×10^{-1}	5600	Arnett and Chawla (1979)	M	222
	4.1×10^{-1}		Hilal et al. (2008)	Q	
	1.5×10^{1}		Nirmalakhandan et al. (1997)	Q	
2,3,4,6-tetrachloropyridine C_5HCl_4N [14121-36-9]	1.2×10^{-3}		Zhang et al. (2010)	Q	107, 108
	1.1×10^{-1}		Zhang et al. (2010)	Q	107, 109
	7.9×10^{-2}		Zhang et al. (2010)	Q	107, 110
	2.9×10^{-1}		Zhang et al. (2010)	Q	107, 111
2,3,5,6-tetrachloropyridine C_5HCl_4N [2402-79-1]	1.2×10^{-3}		HSDB (2015)	Q	38
	1.2×10^{-3}		Zhang et al. (2010)	Q	107, 108
	3.4×10^{-2}		Zhang et al. (2010)	Q	107, 109
	8.4×10^{-2}		Zhang et al. (2010)	Q	107, 110
	1.9×10^{-1}		Zhang et al. (2010)	Q	107, 111
pentachloropyridine C_5Cl_5N [2176-62-7]	1.6×10^{-3}		HSDB (2015)	Q	38
	1.6×10^{-3}		Zhang et al. (2010)	Q	107, 108
	1.3×10^{-2}		Zhang et al. (2010)	Q	107, 109
	2.5×10^{-2}		Zhang et al. (2010)	Q	107, 110
	1.8×10^{-1}		Zhang et al. (2010)	Q	107, 111
desethylatrazine $C_6H_{10}ClN_5$ [6190-65-4]	6.6×10^{3}		HSDB (2015)	Q	38
2-chloro-6-(trichloromethyl)-pyridine $C_6H_3Cl_4N$ [1929-82-4]	6.2×10^{-1}		Zhang et al. (2010)	Q	107, 108
	1.8		Zhang et al. (2010)	Q	107, 109
	2.7		Zhang et al. (2010)	Q	107, 110
	4.2×10^{-1}		Zhang et al. (2010)	Q	107, 111
	1.8		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,3,4,5-tetrachloro-6-methylpyridine	6.7×10^{-2}		Zhang et al. (2010)	Q	107, 108
$C_6H_3Cl_4N$	3.6×10^{-2}		Zhang et al. (2010)	Q	107, 109
[10469-02-0]	3.6×10^{-2}		Zhang et al. (2010)	Q	107, 110
	1.1×10^{-1}		Zhang et al. (2010)	Q	107, 111
2-chloro-5-(trichloromethyl)pyridine	6.2×10^{-1}		Zhang et al. (2010)	Q	107, 108
$C_6H_3Cl_4N$	2.2		Zhang et al. (2010)	Q	107, 109
[69045-78-9]	7.7×10^{-1}		Zhang et al. (2010)	Q	107, 110
	4.2×10^{-1}		Zhang et al. (2010)	Q	107, 111
2,3-dichloro-5-(trichloromethyl)pyridine	8.4×10^{-1}		Zhang et al. (2010)	Q	107, 108
$C_6H_2Cl_5N$	4.1×10^{-1}		Zhang et al. (2010)	Q	107, 109
[69045-83-6]	1.8×10^{-1}		Zhang et al. (2010)	Q	107, 110
	6.1×10^{-1}		Zhang et al. (2010)	Q	107, 111
2,5-dichloro-6-(trichloromethyl)pyridine	8.4×10^{-1}		Zhang et al. (2010)	Q	107, 108
$C_6H_2Cl_5N$	1.2		Zhang et al. (2010)	Q	107, 109
[1817-13-6]	9.9×10^{-1}		Zhang et al. (2010)	Q	107, 110
	5.7×10^{-1}		Zhang et al. (2010)	Q	107, 111
3,4,5-trichloro-2-(trichloromethyl)pyridine	7.2×10^{1}		Zhang et al. (2010)	Q	107, 108
C_6HCl_6N	9.0×10^{-2}		Zhang et al. (2010)	Q	107, 109
[1201-30-5]	1.0×10^{-1}		Zhang et al. (2010)	Q	107, 110
	4.1×10^{-1}		Zhang et al. (2010)	Q	107, 111
2,3,4,5-tetrachloro-6-(trichloromethyl)pyridine	1.5		Zhang et al. (2010)	Q	107, 108
C_6Cl_7N	6.7×10^{-2}		Zhang et al. (2010)	Q	107, 109
[1134-04-9]	7.0×10^{-2}		Zhang et al. (2010)	Q	107, 110
	2.3×10^{-1}		Zhang et al. (2010)	Q	107, 111
3,4,5,6-tetrachloropyridine-2-carbonitrile	7.5		Zhang et al. (2010)	Q	107, 108
$C_6Cl_4N_2$	1.7		Zhang et al. (2010)	Q	107, 109
[17824-83-8]	8.0×10^{-1}		Zhang et al. (2010)	Q	107, 110
	1.5×10^{1}		Zhang et al. (2010)	Q	107, 111
4-amino-3,5,6-trichloropyridine-2-carbonitrile	1.6×10^{4}		Zhang et al. (2010)	Q	107, 108
$C_6H_2Cl_3N_3$	1.1×10^{3}		Zhang et al. (2010)	Q	107, 109
[14143-60-3]	9.0×10^{3}		Zhang et al. (2010)	Q	107, 110
	1.0×10^{5}		Zhang et al. (2010)	Q	107, 111
crimidine $C_7H_{10}ClN_3$ [535-89-7]	2.6×10^{2}		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
simazine	1.0×10^{4}		HSDB (2015)	V	
$C_7H_{12}ClN_5$	2.9×10^{3}		Mackay et al. (2006d)	V	
[122-34-9]	2.9×10^{3}		Suntio et al. (1988)	V	9
	1.6×10^{4}		Glotfelty et al. (1987)	V	
	6.2×10^{7}		Delgado and Alderete (2003)	C	
	1.1×10^{4}		Delgado and Alderete (2003)	C	
	1.7×10^{3}		Hilal et al. (2008)	Q	
	7.2×10^{3}		Abraham et al. (2007)	Q	
	5.5×10^{5}		Delgado and Alderete (2003)	Q	
	4.0×10^{6}		Delgado and Alderete (2003)	Q	
desethylterbuthylazine	2.2×10^{3}		Otto et al. (1997)	V	
$C_7H_{12}ClN_5$					
[30125-63-4]					
atrazine	1.9×10^{3}		Muir et al. (2004)	L	144
$C_8H_{14}ClN_5$	3.5×10^{3}		Mackay et al. (2006d)	V	
[1912-24-9]	1.0×10^{3}		Siebers et al. (1994)	V	
	3.3×10^{3}		Riederer (1990)	V	
	3.4×10^{3}		Suntio et al. (1988)	V	9
	2.0×10^{3}		Glotfelty et al. (1987)	V	
	8.3×10^{6}		Delgado and Alderete (2003)	C	
	4.3×10^{3}		Delgado and Alderete (2003)	C	
	7.2×10^{2}		Hilal et al. (2008)	Q	
	5.1×10^{3}		Abraham et al. (2007)	Q	
	2.8×10^{4}		Delgado and Alderete (2003)	Q	
	4.0×10^{5}		Delgado and Alderete (2003)	Q	
clonidine	6.6×10^{5}		HSDB (2015)	Q	38
$C_9H_9Cl_2N_3$					
[4205-90-7]					
cyprazine	3.8×10^{3}		HSDB (2015)	Q	38
$C_9H_{12}ClN_5$					
[22936-86-3]					
propazine	2.1×10^{3}		HSDB (2015)	V	
$C_9H_{16}ClN_5$			Mackay et al. (2006d)	V	221
[139-40-2]	1.0×10^{4}		Suntio et al. (1988)	V	9
	3.6×10^{2}		Hilal et al. (2008)	Q	
	4.0×10^{3}		Abraham et al. (2007)	Q	
terbuthylazine	4.3×10^{2}		HSDB (2015)	V	
$C_9H_{16}ClN_5$	2.5×10^{2}		Mackay et al. (2006d)	V	
[5915-41-3]	2.5×10^{2}		Otto et al. (1997)	V	
	2.4×10^{2}		Siebers et al. (1994)	V	
	2.9×10^{2}		Hilal et al. (2008)	Q	
	9.0×10^{2}		Abraham et al. (2007)	Q	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
cyanazine	3.3×10^{6}		Mackay et al. (2006d)	V	
$C_9H_{13}ClN_6$	8.3×10^{9}		Delgado and Alderete (2003)	C	
[21725-46-2]	3.9×10^{6}		Delgado and Alderete (2003)	C	
	6.4×10^{5}		Hilal et al. (2008)	Q	
	2.0×10^{6}		Abraham et al. (2007)	Q	
	4.5×10^{6}		Delgado and Alderete (2003)	Q	
	1.0×10^{9}		Delgado and Alderete (2003)	Q	
anilazine	3.5×10^{4}		HSDB (2015)	V	
$C_9H_5Cl_3N_4$	3.5×10^{4}		Mackay et al. (2006d)	V	
[101-05-3]	2.9×10^{1}		Zhang et al. (2010)	Q	107, 108
	1.2×10^{3}		Zhang et al. (2010)	Q	107, 109
	9.5		Zhang et al. (2010)	Q	107, 110
	5.4×10^{3}		Zhang et al. (2010)	Q	107, 111
	3.5×10^{4}		MacBean (2012a)	?	
4,7-dichloroquinoline	2.6×10^{1}		Zhang et al. (2010)	Q	107, 108
$C_9H_5Cl_2N$	6.9		Zhang et al. (2010)	Q	107, 109
[86-98-6]	1.5		Zhang et al. (2010)	Q	107, 110
	7.0		Zhang et al. (2010)	Q	107, 111
acetamiprid $C_{10}H_{11}ClN_4$ [135410-20-7]	1.4×10^{2}		HSDB (2015)	Q	38
pyrimethamine $C_{12}H_{13}ClN_4$ [58-14-0]	9.1×10^{4}		HSDB (2015)	Q	182
penconazole $C_{13}H_{15}Cl_2N_3$ [66246-88-6]	1.2×10^{3}		Mackay et al. (2006d)	V	
myclobutanil $C_{15}H_{17}ClN_4$ [88671-89-0]	2.3×10^{3}		HSDB (2015)	V	
2-chloro-4,6-bis(2,4-dimethylphenyl)-1,3,5-triazine	1.2×10^{3}		Zhang et al. (2010)	Q	107, 108
$C_{19}H_{18}N_3Cl$	1.3×10^{3}		Zhang et al. (2010)	Q	107, 109
[1237-53-2]	7.0		Zhang et al. (2010)	Q	107, 110
	1.2×10^{3}		Zhang et al. (2010)	Q	107, 111
trichloronitromethane	4.7×10^{-3}		Sander et al. (2011)	L	
CCl_3NO_2	4.7×10^{-3}		Worthington and Wade (2007)	M	
(chloropicrin)	4.8×10^{-3}		Kawamoto and Urano (1989)	M	
[76-06-2]			Mackay et al. (2006d)	V	221
	5.1×10^{-3}		Suntio et al. (1988)	V	9
	2.5×10^{-3}		Hilal et al. (2008)	Q	
phosgene oxime $CHCl_2NO$ [1794-86-1]	1.8×10^{1}		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1,1-dichloro-1-nitroethane	7.7×10^{-3}		HSDB (2015)	Q	38
$C_2H_3Cl_2NO_2$	2.0×10^{-2}		Hilal et al. (2008)	Q	
[594-72-9]					
2-chloroacetamide	2.5×10^{3}		HSDB (2015)	Q	38
C_2H_4ClNO					
[79-07-2]					
symclosene	1.6×10^{5}		HSDB (2015)	Q	38
$C_3Cl_3N_3O_3$					
(trichloroisocyanuric acid)					
[87-90-1]					
1,3-dichloro-5,5-dimethylhydantoin	9.9		HSDB (2015)	Q	38
$C_5H_6Cl_2N_2O_2$					
[118-52-5]					
carmustine	2.1×10^{5}		HSDB (2015)	Q	38
$C_5H_9Cl_2N_3O_2$					
[154-93-8]					
2-chloro-N,N-di-2-propenylacetamide	9.2×10^{1}		HSDB (2015)	V	
$C_8H_{12}ClNO$	9.7×10^{1}		Hilal et al. (2008)	Q	
[93-71-0]					
2,2-dichloro-N,N-di-2-propenylacetamide	3.1×10^{1}		Hilal et al. (2008)	Q	
$C_8H_{11}Cl_2NO$					
(dichlormid)					
[37764-25-3]					
lomustine	5.5×10^{4}		HSDB (2015)	Q	38
$C_9H_{16}ClN_3O_2$					
[13010-47-4]					
semustine	3.9×10^{4}		HSDB (2015)	Q	38
$C_{10}H_{18}ClN_3O_2$					
[13909-09-6]					
dimethazone	2.4×10^{2}		MacBean (2012b)	X	137
$C_{12}H_{14}ClNO_2$					
[81777-89-1]					
2-chloronitrobenzene	1.1		Altschuh et al. (1999)	M	
$C_6H_4ClNO_2$	2.2×10^{-1}		Hellmann (1987)	M	31
(*o*-chloronitrobenzene)	2.8×10^{-1}		Lide and Frederikse (1995)	V	
[88-73-3]	6.2×10^{-1}		Zhang et al. (2010)	Q	107, 108
	1.5×10^{-1}		Zhang et al. (2010)	Q	107, 109
	1.2		Zhang et al. (2010)	Q	107, 110
	4.6×10^{-1}		Zhang et al. (2010)	Q	107, 111
	3.1×10^{-1}		Hilal et al. (2008)	Q	
		4700	Kühne et al. (2005)	Q	
		6000	Kühne et al. (2005)	?	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
3-chloronitrobenzene	7.3×10^{-1}		Altschuh et al. (1999)	M	
$C_6H_4ClNO_2$	1.1×10^{-1}		Schüürmann (2000)	V	
(m-chloronitrobenzene)	6.2×10^{-1}		Zhang et al. (2010)	Q	107, 108
[121-73-3]	2.8×10^{-1}		Zhang et al. (2010)	Q	107, 109
	2.8×10^{-1}		Zhang et al. (2010)	Q	107, 110
	4.6×10^{-1}		Zhang et al. (2010)	Q	107, 111
	2.1×10^{-1}		Hilal et al. (2008)	Q	
4-chloronitrobenzene	2.0		Altschuh et al. (1999)	M	
$C_6H_4ClNO_2$	1.8×10^{-1}		Hellmann (1987)	M	31
(p-chloronitrobenzene)	2.8×10^{-1}		Lide and Frederikse (1995)	V	
[100-00-5]	6.2×10^{-1}		Zhang et al. (2010)	Q	107, 108
	3.0×10^{-1}		Zhang et al. (2010)	Q	107, 109
	6.1×10^{-1}		Zhang et al. (2010)	Q	107, 110
	4.6×10^{-1}		Zhang et al. (2010)	Q	107, 111
	2.3×10^{-1}		Hilal et al. (2008)	Q	
	2.3×10^{-1}		Hilal et al. (2008)	Q	
		4700	Kühne et al. (2005)	Q	
		4000	Kühne et al. (2005)	?	
1,2-dichloro-4-nitrobenzene	1.2		Altschuh et al. (1999)	M	
$C_6H_3Cl_2NO_2$	8.4×10^{-1}		Zhang et al. (2010)	Q	107, 108
[99-54-7]	3.1×10^{-1}		Zhang et al. (2010)	Q	107, 109
	4.6×10^{-1}		Zhang et al. (2010)	Q	107, 110
	6.7×10^{-1}		Zhang et al. (2010)	Q	107, 111
	2.7×10^{-1}		Hilal et al. (2008)	Q	
1,4-dichloro-2-nitrobenzene	8.2×10^{-1}		Altschuh et al. (1999)	M	
$C_6H_3Cl_2NO_2$	8.4×10^{-1}		Zhang et al. (2010)	Q	107, 108
[89-61-2]	1.5×10^{-1}		Zhang et al. (2010)	Q	107, 109
	7.3×10^{-1}		Zhang et al. (2010)	Q	107, 110
	6.1×10^{-1}		Zhang et al. (2010)	Q	107, 111
	3.1×10^{-1}		Hilal et al. (2008)	Q	
2,3-dichloronitrobenzene	8.2×10^{-1}		HSDB (2015)	Q	38
$C_6H_3Cl_2NO_2$	8.4×10^{-1}		Zhang et al. (2010)	Q	107, 108
[3209-22-1]	1.4×10^{-1}		Zhang et al. (2010)	Q	107, 109
	9.7×10^{-1}		Zhang et al. (2010)	Q	107, 110
	6.7×10^{-1}		Zhang et al. (2010)	Q	107, 111
2,4-dichloronitrobenzene	3.1×10^{-1}		HSDB (2015)	Q	38
$C_6H_3Cl_2NO_2$	8.4×10^{-1}		Zhang et al. (2010)	Q	107, 108
[611-06-3]	1.6×10^{-1}		Zhang et al. (2010)	Q	107, 109
	8.4×10^{-1}		Zhang et al. (2010)	Q	107, 110
	2.9×10^{-1}		Zhang et al. (2010)	Q	107, 111
3,5-dichloronitrobenzene	8.4×10^{-1}		Zhang et al. (2010)	Q	107, 108
$C_6H_3Cl_2NO_2$	2.0×10^{-1}		Zhang et al. (2010)	Q	107, 109
[618-62-2]	1.1×10^{-1}		Zhang et al. (2010)	Q	107, 110
	2.9×10^{-1}		Zhang et al. (2010)	Q	107, 111

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
pentachloronitrobenzene	2.7		Kawamoto and Urano (1989)	M	
$C_6Cl_5NO_2$	2.2×10^{-1}		HSDB (2015)	V	
(quintozene)	2.3×10^{-1}		Mackay et al. (2006d)	V	
[82-68-8]	2.1×10^{-1}		Howard and Meylan (1997)	X	181
	2.1		Zhang et al. (2010)	Q	107, 108
	2.3×10^{-2}		Zhang et al. (2010)	Q	107, 109
	2.2×10^{-2}		Zhang et al. (2010)	Q	107, 110
	2.2×10^{-1}		Zhang et al. (2010)	Q	107, 111
	6.9×10^{-2}		Hilal et al. (2008)	Q	
	2.1		Meylan and Howard (1991)	Q	
4-chloro-2-nitrophenol $C_6H_4ClNO_3$ [89-64-5]	7.8×10^{-1}		Schwarzenbach et al. (1988)	V	9
2-chloro-4-nitrobenzenamine	1.0×10^{3}		Altschuh et al. (1999)	M	
$C_6H_5ClN_2O_2$	1.8×10^{3}		Zhang et al. (2010)	Q	107, 108
[121-87-9]	1.3×10^{3}		Zhang et al. (2010)	Q	107, 109
	6.7×10^{4}		Zhang et al. (2010)	Q	107, 110
	2.1×10^{3}		Zhang et al. (2010)	Q	107, 111
	4.6×10^{2}		Hilal et al. (2008)	Q	
2-chloro-5-nitrobenzenamine $C_6H_5ClN_2O_2$ [6283-25-6]	1.8×10^{3}		HSDB (2015)	Q	38
4-chloro-2,6-dinitrobenzenamine $C_6H_4ClN_3O_4$ [5388-62-5]	7.6×10^{1}		HSDB (2015)	Q	38
1-chloro-2,4-dinitrobenzene	4.0		HSDB (2015)	V	
$C_6H_3ClN_2O_4$	1.6×10^{2}		Zhang et al. (2010)	Q	107, 108
[97-00-7]	6.0		Zhang et al. (2010)	Q	107, 109
	5.3		Zhang et al. (2010)	Q	107, 110
	3.9×10^{1}		Zhang et al. (2010)	Q	107, 111
1-chloro-2,6-dinitrobenzene	1.6×10^{2}		Zhang et al. (2010)	Q	107, 108
$C_6H_3ClN_2O_4$	4.3		Zhang et al. (2010)	Q	107, 109
[606-21-3]	7.2		Zhang et al. (2010)	Q	107, 110
	3.9×10^{1}		Zhang et al. (2010)	Q	107, 111
2-chloro-1,3,5-trinitrobenzene $C_6H_2ClN_3O_6$ [88-88-0]	3.9×10^{4}		HSDB (2015)	Q	38
2,3,4-trichloronitrobenzene	1.1		Zhang et al. (2010)	Q	107, 108
$C_6H_2Cl_3NO_2$	1.3×10^{-1}		Zhang et al. (2010)	Q	107, 109
[17700-09-3]	2.0×10^{-1}		Zhang et al. (2010)	Q	107, 110
	4.0×10^{-1}		Zhang et al. (2010)	Q	107, 111
2,3,4,5-tetrachloronitrobenzene $C_6HCl_4NO_2$ [879-39-0]	4.3×10^{-1}		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1,2,4,5-tetrachloronitrobenzene $C_6HCl_4NO_2$ (tecnazene) [117-18-0]	4.3×10^{-1}		HSDB (2015)	Q	38
4-chloro-2-nitrobenzenamine $C_6H_5ClN_2O_2$ [89-63-4]	8.2×10^{1}		HSDB (2015)	Q	38
	8.0×10^{1}		Zhang et al. (2010)	Q	107, 108
	1.7×10^{2}		Zhang et al. (2010)	Q	107, 109
	2.2×10^{3}		Zhang et al. (2010)	Q	107, 110
	2.9×10^{2}		Zhang et al. (2010)	Q	107, 111
4-chloro-3-nitrobenzenamine $C_6H_5ClN_2O_2$ [635-22-3]	1.8×10^{3}		HSDB (2015)	Q	38
	1.8×10^{3}		Zhang et al. (2010)	Q	107, 108
	1.1×10^{3}		Zhang et al. (2010)	Q	107, 109
	2.4×10^{3}		Zhang et al. (2010)	Q	107, 110
	3.5×10^{3}		Zhang et al. (2010)	Q	107, 111
botran $C_6H_4Cl_2N_2O_2$ [99-30-9]	1.2×10^{2}		HSDB (2015)	V	
	2.4×10^{3}		Zhang et al. (2010)	Q	107, 108
	6.9×10^{1}		Zhang et al. (2010)	Q	107, 109
	1.7×10^{3}		Zhang et al. (2010)	Q	107, 110
	1.4×10^{3}		Zhang et al. (2010)	Q	107, 111
3,5-dichlorophenyl isocyanate $C_7H_3Cl_2NO$ [34893-92-0]	7.7×10^{-2}		Zhang et al. (2010)	Q	107, 108
	2.8		Zhang et al. (2010)	Q	107, 109
	8.2×10^{-3}		Zhang et al. (2010)	Q	107, 110
	7.2×10^{-1}		Zhang et al. (2010)	Q	107, 111
4-chloro-3-nitrobenzoic acid $C_7H_4ClNO_4$ [96-99-1]	3.1×10^{4}		Zhang et al. (2010)	Q	107, 108
	2.1×10^{3}		Zhang et al. (2010)	Q	107, 109
	1.6×10^{3}		Zhang et al. (2010)	Q	107, 110
	9.2×10^{4}		Zhang et al. (2010)	Q	107, 111
1-chloro-4-isocyanatobenzene C_7H_4ClNO [104-12-1]	5.7×10^{-2}		Zhang et al. (2010)	Q	107, 108
	4.1		Zhang et al. (2010)	Q	107, 109
	9.7×10^{-3}		Zhang et al. (2010)	Q	107, 110
	3.4		Zhang et al. (2010)	Q	107, 111
1,2-dichloro-4-isocyanatobenzene $C_7H_3Cl_2NO$ [102-36-3]	7.7×10^{-2}		Zhang et al. (2010)	Q	107, 108
	4.5		Zhang et al. (2010)	Q	107, 109
	1.6×10^{-2}		Zhang et al. (2010)	Q	107, 110
	2.2		Zhang et al. (2010)	Q	107, 111
2-chloro-1-methyl-4-nitrobenzene $C_7H_6ClNO_2$ [121-86-8]	2.4×10^{-1}		HSDB (2015)	Q	216
	5.7×10^{-1}		Zhang et al. (2010)	Q	107, 108
	3.4×10^{-1}		Zhang et al. (2010)	Q	107, 109
	3.7×10^{-1}		Zhang et al. (2010)	Q	107, 110
	2.5×10^{-1}		Zhang et al. (2010)	Q	107, 111
2,4-dichloro-3-methyl-6-nitrophenol $C_7H_5Cl_2NO_3$ [39549-27-4]	2.3		Zhang et al. (2010)	Q	107, 108
	2.9		Zhang et al. (2010)	Q	107, 109
	9.5×10^{1}		Zhang et al. (2010)	Q	107, 110
	3.3×10^{-1}		Zhang et al. (2010)	Q	107, 111

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
4-chloro-5-methyl-2-nitrophenol $C_7H_6ClNO_3$ (4-chloro-6-nitro-m-cresol) [7147-89-9]	3.6×10^{-1}		Schwarzenbach et al. (1988)	V	9
3-amino-2,5-dichlorobenzoic acid $C_7H_5Cl_2NO_2$ [133-90-4]	3.6		Mackay et al. (2006d)	V	
2,3,5,6-tetrachloro-4-nitroanisole $C_7H_3Cl_4NO_3$ (TCNA) [2438-88-2]	5.2×10^{-1}		HSDB (2015)	Q	38
2,6-dichlorobenzamide $C_7H_5Cl_2NO$ [2008-58-4]	8.2×10^{3}		HSDB (2015)	Q	38
swep $C_8H_7Cl_2NO$ [1918-18-9]	8.2×10^{2}		HSDB (2015)	Q	38
N-(4-chlorophenyl)acetamide C_8H_8ClNO (p-chloroacetanilide) [539-03-7]	2.1		HSDB (2015)	Q	38
methyl 5-chloro-2-nitrobenzoate $C_8H_6ClNO_4$ [51282-49-6]	9.7×10^{1} 1.2×10^{2} 3.7×10^{3} 6.7×10^{1}		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
4-chloro-2,5-dimethoxynitrobenzene $C_8H_8ClNO_4$ [6940-53-0]	1.8×10^{2} 1.6×10^{1} 2.0×10^{2} 3.9×10^{1}		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
chloraniformethan $C_9H_7Cl_5N_2O$ [20856-57-9]	$>2.3\times10^{10}$		MacBean (2012a)	?	
monuron $C_9H_{11}ClN_2O$ [150-68-5]	1.7×10^{4} 1.5×10^{4} 3.3×10^{2} 1.7×10^{4} 1.7×10^{4}		HSDB (2015) Mackay et al. (2006d) Suntio et al. (1988) Burkhard and Guth (1981) MacBean (2012a)	V V V V ?	 9
monolinuron $C_9H_{11}ClN_2O_2$ [1746-81-2]	2.1×10^{2} 1.7×10^{2}		HSDB (2015) Mackay et al. (2006d)	V V	
diuron $C_9H_{10}Cl_2N_2O$ [330-54-1]	2.0×10^{4} 8.3×10^{2}		HSDB (2015) Mackay et al. (2006d) Suntio et al. (1988)	V V V	 221 9

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
linuron			Mackay et al. (2006d)	V	221
$C_9H_{10}Cl_2N_2O_2$	1.9×10^2		Suntio et al. (1988)	V	9
[330-55-2]	5.0×10^3		MacBean (2012b)	X	137
propanil	5.8×10^3		HSDB (2015)	V	
$C_9H_9Cl_2NO$	1.8×10^2		Mackay et al. (2006d)	V	
[709-98-8]	2.8×10^2		Suntio et al. (1988)	V	9
	2.2×10^3		Zhang et al. (2010)	Q	107, 108
	8.0×10^2		Zhang et al. (2010)	Q	107, 109
	3.8×10^3		Zhang et al. (2010)	Q	107, 110
	8.4×10^3		Zhang et al. (2010)	Q	107, 111
methazole	4.3×10^1		HSDB (2015)	V	
$C_9H_6Cl_2N_2O_3$	4.8×10^4		Hilal et al. (2008)	Q	
[20354-26-1]	4.3×10^1		MacBean (2012a)	?	
chlortoluron	7.0×10^4		HSDB (2015)	V	
$C_{10}H_{13}ClN_2O$	1.9×10^4		Mackay et al. (2006d)	V	
[15545-48-9]					
metoxuron	6.9×10^2		Mackay et al. (2006d)	V	
$C_{10}H_{13}ClN_2O_2$					
[19937-59-8]					
chlorpropham	2.3×10^1		Watanabe (1993)	M	
$C_{10}H_{12}ClNO_2$	1.7×10^1		HSDB (2015)	V	
[101-21-3]			Mackay et al. (2006d)	V	221
	4.8×10^2		Suntio et al. (1988)	V	9
pyrazon	3.0×10^4		HSDB (2015)	V	
$C_{10}H_8ClN_3O$	2.3×10^{-1}		Mackay et al. (2006d)	V	
[1698-60-8]	2.3×10^{-1}		Suntio et al. (1988)	V	9
2,4-D dimethylamine	7.0×10^{10}		HSDB (2015)	Q	38
$C_{10}H_{13}Cl_2NO_3$					
((2,4-dichlorophenoxy)acetic acid dimethylamine)					
[2008-39-1]					
3',4'-dichlorocyclopropanecarboxanilide	3.8×10^3		HSDB (2015)	Q	38
$C_{10}H_9Cl_2NO$					
(cypromid)					
[2759-71-9]					
chlorbufam	1.1×10^3		HSDB (2015)	V	
$C_{11}H_{10}ClNO_2$	1.1×10^3		MacBean (2012a)	?	
[1967-16-4]					
zarilamid	1.5×10^5		MacBean (2012a)	?	
$C_{11}H_{11}N_2O_2Cl$					
[84527-51-5]					
chloramphenicol	4.3×10^{12}		HSDB (2015)	Q	38
$C_{11}H_{12}Cl_2N_2O_5$					
[56-75-7]					

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
cloethocarb $C_{11}H_{14}ClNO_4$ [51487-69-5]	5.0×10^{5}		MacBean (2012a)	?	
formetanate hydrochloride $C_{11}H_{16}ClN_3O_2$ [23422-53-9]	4.3×10^{13}		HSDB (2015)	Q	38
cyclanilide $C_{11}H_9Cl_2NO_3$ [113136-77-9]	1.4×10^{4}		MacBean (2012b)	X	137
propachlor $C_{11}H_{14}ClNO$ [1918-16-7]	2.7×10^{1} 9.1×10^{1} 9.1×10^{1}		HSDB (2015) Mackay et al. (2006d) Suntio et al. (1988)	V V V	 9
barban $C_{11}H_9Cl_2NO_2$ [101-27-9]	8.2×10^{2} 8.5×10^{2} 8.5×10^{2}		HSDB (2015) Mackay et al. (2006d) MacBean (2012a)	V V ?	
propyzamide $C_{12}H_{11}Cl_2NO$ (pronamide) [23950-58-5]	5.2		HSDB (2015) Mackay et al. (2006d)	V W	 276
2,4,6-trichlorophenyl 4-nitrophenyl ether $C_{12}H_6Cl_3NO_3$ (chlornitrofen) [1836-77-7]	>8.1		Kawamoto and Urano (1989)	M	
nitrofen $C_{12}H_7Cl_2NO_3$ [1836-75-5]	3.3 3.9×10^{1} 2.8×10^{1} 1.2×10^{2} 1.1×10^{2}		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	V Q Q Q Q	 107, 108 107, 109 107, 110 107, 111
buturon $C_{12}H_{13}ClN_2O$ [3766-60-7]	1.3×10^{4}		MacBean (2012a)	?	
triclocarban $C_{13}H_9Cl_3N_2O$ [101-20-2]	2.2×10^{5} 2.2×10^{5} 5.0×10^{3} 7.2×10^{7} 1.8×10^{7}		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q Q	38 107, 108 107, 109 107, 110 107, 111
3,5-dichloro-N-(3,4-dichlorophenyl)-2-hydroxybenzamide $C_{13}H_7Cl_4NO_2$ [1154-59-2]	2.1×10^{5} 2.1×10^{5} 2.3×10^{5} 3.9×10^{6} 1.6×10^{5}		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q Q	38 107, 108 107, 109 107, 110 107, 111
procymidone $C_{13}H_{11}Cl_2NO_2$ [32809-16-8]	8.5×10^{-1}		Mackay et al. (2006d)	V	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
melphalan $C_{13}H_{18}Cl_2N_2O_2$ [148-82-3]	2.3×10^7		HSDB (2015)	Q	38
niclosamide $C_{13}H_8Cl_2N_2O_4$ [50-65-7]	1.5×10^4		HSDB (2015)	V	
zoxamide $C_{14}H_{16}Cl_3NO_2$ [156052-68-5]	4.9×10^3		HSDB (2015)	Q	38
fenhexamid $C_{14}H_{17}Cl_2NO_2$ [126833-17-8]	2.0×10^5		MacBean (2012b)	X	137
chlorambucil $C_{14}H_{19}Cl_2NO_2$ [305-03-3]	3.7×10^4		HSDB (2015)	Q	38
2-chloro-N-(ethoxymethyl)-N-(2-ethyl-6-methylphenyl)acetamide $C_{14}H_{20}ClNO_2$ (acetochlor) [34256-82-1]	3.7×10^4		HSDB (2015)	V	
alachlor $C_{14}H_{20}ClNO_2$ [15972-60-8]	6.7×10^2		Muir et al. (2004)	L	144
	9.9×10^2		Muir et al. (2004)	L	143
	1.4×10^2	9200	Gautier et al. (2003)	M	
	9.0×10^2		Fendinger et al. (1989)	M	126
	1.2×10^3		Fendinger and Glotfelty (1988)	M	126
	4.5×10^2		Mackay et al. (2006d)	V	
	1.6×10^2		Suntio et al. (1988)	V	9
	3.1×10^2		Glotfelty et al. (1987)	V	
	3.1×10^3		Hilal et al. (2008)	Q	
		11000	Kühne et al. (2005)	Q	
	8.2×10^4		Meylan and Howard (1991)	Q	
		9300	Kühne et al. (2005)	?	
	3.1×10^2		Chesters et al. (1989)	?	
bifenox $C_{14}H_9Cl_2NO_3$ [42576-02-3]	3.7		HSDB (2015)	V	
	3.2		Mackay et al. (2006d)	V	
metolachlor $C_{15}H_{22}ClNO_2$ [51218-45-2]	7.5×10^2		Muir et al. (2004)	L	144
	7.2×10^2		Muir et al. (2004)	L	143
	6.2×10^2	15000	Fogg and Sangster (2003)	L	
	2.1×10^2	10000	Feigenbrugel et al. (2004a)	M	
	1.3×10^2		Rice et al. (1997b)	M	9
	4.3×10^2		Mackay et al. (2006d)	V	
	4.1×10^2		Otto et al. (1997)	V	
	1.1×10^3		Glotfelty et al. (1987)	V	
	1.1×10^3		Burkhard and Guth (1981)	V	
	5.7×10^2	15000	Lau et al. (1995)	X	3
	1.2×10^3		Rice et al. (1997b)	C	
	6.2×10^3		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
		12000	Kühne et al. (2005)	Q	
		10000	Kühne et al. (2005)	?	
	1.1×10^{3}		Chesters et al. (1989)	?	9
clonitralid $C_{15}H_{15}Cl_2N_3O_5$ [1420-04-8]	$>2.6\times10^{4}$		HSDB (2015)	V	
chloroxuron $C_{15}H_{15}ClN_2O_2$ [1982-47-4]	2.4×10^{4} 5.3×10^{4}		HSDB (2015) MacBean (2012a)	V ?	
CGA 80000 $C_{15}H_{18}ClNO_4$ [67932-85-8]	4.4×10^{6}		MacBean (2012a)	?	
pigment red 4 $C_{16}H_{10}ClN_3O_3$ [2814-77-9]	1.1×10^{7}		HSDB (2015)	Q	38
darendoside b $C_{17}H_{15}Cl_2N_5O_2$ [13301-61-6]	2.7×10^{7} 5.0×10^{6} 2.5×10^{7} 7.3×10^{4}		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
butenachlor $C_{17}H_{24}NO_2Cl$ [87310-56-3]	1.0×10^{2}		MacBean (2012a)	?	
butachlor $C_{17}H_{26}ClNO_2$ [23184-66-9]	1.6×10^{2} 1.2×10^{2} 6.9×10^{2}		Watanabe (1993) Mackay et al. (2006d) Hilal et al. (2008)	M V Q	
pretilachlor $C_{17}H_{26}ClNO_2$ [51218-49-6]	4.5×10^{3}		Hilal et al. (2008)	Q	
halofenozide $C_{18}H_{19}ClN_2O_2$ [112226-61-6]	2.7×10^{5}		HSDB (2015)	Q	38
α-cypermethrin $C_{22}H_{19}Cl_2NO_3$ [67375-30-8]	1.0 1.0×10^{2}		HSDB (2015) Mackay et al. (2006d)	V V	
β-cypermethrin $C_{22}H_{19}Cl_2NO_3$ [65731-84-2]			Mackay et al. (2006d)	V	221
δ-cypermethrin $C_{22}H_{19}Cl_2NO_3$ (cypermethrin; alphamethrin) [52315-07-8]	4.1×10^{1} 4.3×10^{2} 1.2×10^{1}		HSDB (2015) Mackay et al. (2006d) Siebers and Mattusch (1996)	V V V	 9
ochratoxin C $C_{22}H_{22}ClNO_6$ [4865-85-4]	7.6×10^{8}		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
mandipropamid $C_{23}H_{22}ClNO_4$ [374726-62-2]	1.1×10^4		HSDB (2015)	V	
fenvalerate $C_{25}H_{22}ClNO_3$ [51630-58-1]	2.9×10^2 4.7×10^1 7.0×10^1		HSDB (2015) Mackay et al. (2006d) Cotham and Bidleman (1989)	V V V	
esfenvalerate $C_{25}H_{22}ClNO_3$ [66230-04-4]	2.4×10^1		HSDB (2015)	V	
picloram $C_6H_3Cl_3N_2O_2$ [1918-02-1]	3.0×10^4 2.9×10^4 7.7×10^6 2.5 9.0×10^4 1.6×10^8		Mackay et al. (2006d) Suntio et al. (1988) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	V V Q Q Q Q	 9 107, 108 107, 109 107, 110 107, 111
aminopyralid $C_6H_4Cl_2N_2O_2$ [150114-71-9]	5.8×10^6		HSDB (2015)	Q	38
3,4,5,6-tetrachloropyridine-2-carboxylic acid $C_6HCl_4NO_2$ [10469-09-7]	3.7×10^3 2.4 1.2×10^2 4.1×10^4		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
[(3,5,6-trichloro-2-pyridinyl)oxy]-acetic acid $C_7H_4Cl_3NO_3$ (triclopyr) [55335-06-3]	1.0×10^4 1.2×10^4		HSDB (2015) Armbrust (2000)	V C	
clopidol $C_7H_7Cl_2NO$ [2971-90-6]	9.9×10^3		HSDB (2015)	Q	38
[(3,5,6-trichloro-2-pyridinyl)oxy]-acetic acid, methyl ester $C_8H_6Cl_3NO_3$ [60825-26-5]	6.0 3.1×10^1 4.6×10^3 3.5×10^2		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
uracil mustard $C_8H_{11}Cl_2N_3O_2$ [66-75-1]	2.5×10^7		HSDB (2015)	Q	38
imidacloprid $C_9H_{10}ClN_5O_2$ [138261-41-3]	4.9×10^9		Armbrust (2000)	C	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
ethyl [(3,5,6-trichloro-2-pyridinyl)oxy]acetate	4.5		Zhang et al. (2010)	Q	107, 108
$C_9H_8Cl_3NO_3$	1.7×10^1		Zhang et al. (2010)	Q	107, 109
[60825-27-6]	2.3×10^1		Zhang et al. (2010)	Q	107, 110
	3.1×10^2		Zhang et al. (2010)	Q	107, 111
N-methyl-3,4,5,6-tetrachlorophthalimide	1.5×10^3		Zhang et al. (2010)	Q	107, 108
$C_9H_3Cl_4NO_2$	1.2×10^3		Zhang et al. (2010)	Q	107, 109
[14737-80-5]	4.1×10^1		Zhang et al. (2010)	Q	107, 110
	3.1×10^3		Zhang et al. (2010)	Q	107, 111
terbacil	5.2×10^4		HSDB (2015)	V	
$C_9H_{13}ClN_2O_2$	6.5×10^4		Mackay et al. (2006d)	V	
[5902-51-2]	7.9×10^4		Mackay et al. (2006d)	V	
	5.6×10^4		Suntio et al. (1988)	V	9
triforine	2.6×10^3		HSDB (2015)	V	
$C_{10}H_{14}Cl_6N_4O_2$	2.6×10^3		Mackay et al. (2006d)	V	
[26644-46-2]					
anagrelide	3.7×10^7		HSDB (2015)	Q	38
$C_{10}H_7Cl_2N_3O$					
[68475-42-3]					
fenpiclonil	1.9×10^3		MacBean (2012a)	?	
$C_{11}H_6Cl_2N_2$					
[74738-17-3]					
fenchlorazole-ethyl	2.7×10^3		MacBean (2012a)	?	9
$C_{12}H_8N_3O_2Cl_5$					
[103112-35-2]					
vinclozoline	5.8×10^2		HSDB (2015)	V	
$C_{12}H_9Cl_2NO_3$	2.6×10^5		Mackay et al. (2006d)	V	
[50471-44-8]	9.1×10^1		Siebers et al. (1994)	V	
forchlorfenuron	3.5×10^6		MacBean (2012b)	X	137
$C_{12}H_{10}ClN_3O$					
[68157-60-8]					
myclozolin	3.7×10^2		MacBean (2012a)	?	
$C_{12}H_{11}NO_4Cl_2$					
[54864-61-8]					
clofencet	$>1.9\times10^8$		HSDB (2015)	V	
$C_{13}H_{11}ClN_2O_3$	$>2.3\times10^{10}$		MacBean (2012a)	?	
[129025-54-3]					
chlozolinate	4.4×10^2		MacBean (2012a)	?	
$C_{13}H_{11}NO_5Cl_2$					
[84332-86-5]					
monalide	4.0×10^2		MacBean (2012a)	?	
$C_{13}H_{18}ClNO$					
[7287-36-7]					

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
etaconazole $C_{14}H_{15}Cl_2N_3O_2$ [60207-93-4]	7.9×10^3		MacBean (2012a)	?	
triadimenol $C_{14}H_{18}ClN_3O_2$ [55219-65-3]	7.6×10^6 3.8×10^6		HSDB (2015) Mackay et al. (2006d)	V V	
triadimefon $C_{14}H_{16}ClN_3O_2$ [43121-43-3]	1.2×10^5 1.2×10^5		HSDB (2015) Mackay et al. (2006d)	V V	
imazalil $C_{14}H_{14}Cl_2N_2O$ [35554-44-0]	3.8×10^3 5.1×10^5		HSDB (2015) Mackay et al. (2006d)	V V	
propiconazole $C_{15}H_{17}Cl_2N_3O_2$ [60207-90-1]	1.1×10^4 5.7×10^3 2.5×10^3		HSDB (2015) Mackay et al. (2006d) Siebers et al. (1994)	V V V	
clonazepam $C_{15}H_{10}ClN_3O_3$ [1622-61-3]	1.4×10^7		HSDB (2015)	Q	38
oxazepam $C_{15}H_{12}ClN_2O_2$ [604-75-1]	1.8×10^4		HSDB (2015)	Q	38
oxadiazon $C_{15}H_{18}Cl_2N_2O_3$ [19666-30-9]	1.4×10^2 1.4×10^2		HSDB (2015) Armbrust (2000)	V C	
cyproconazole $C_{15}H_{18}ClN_3O$ [94361-06-5]	1.4×10^4		HSDB (2015)	V	
diclobutrazol $C_{15}H_{19}Cl_2N_3O$ [75736-33-3]	8.0×10^3		MacBean (2012a)	?	
diazepam $C_{16}H_{13}ClN_2O$ [439-14-5]	2.7×10^3		HSDB (2015)	Q	38
bendamustine $C_{16}H_{21}Cl_2N_3O_2$ [16506-27-7]	2.5×10^7		HSDB (2015)	Q	38
piperalin $C_{16}H_{21}Cl_2NO_2$ [3478-94-2]	4.3×10^2		HSDB (2015)	Q	38
tebuconazole $C_{16}H_{22}ClN_3O$ [107534-96-3]	7.0×10^4		HSDB (2015)	V	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
fenarimol $C_{17}H_{12}Cl_2N_2O$ [60168-88-9]	1.4×10^{3}		Mackay et al. (2006d)	V	
triticonazole $C_{17}H_{20}N_3OCl$ [131983-72-7]	6.6×10^{4}		HSDB (2015)	Q	38
boscalid $C_{18}H_{12}Cl_2N_2O$ [188425-85-6]	1.9×10^{4}		MacBean (2012b)	X	137
tebufenpyrad $C_{18}H_{24}ClN_3O$ [119168-77-3]	$>8.2\times10^{2}$		HSDB (2015)	V	
8,9,10,11-tetrachloro-12-phthaloperinone $C_{18}H_6Cl_4N_2O$ [20749-68-2]	4.8×10^{5}		Zhang et al. (2010)	Q	107, 108
	7.5×10^{9}		Zhang et al. (2010)	Q	107, 109
	5.7×10^{3}		Zhang et al. (2010)	Q	107, 110
	1.9×10^{5}		Zhang et al. (2010)	Q	107, 111
pigment red 254 $C_{18}H_{10}Cl_2N_2O_2$ [84632-65-5]	3.4×10^{9}		Zhang et al. (2010)	Q	107, 108
	3.9×10^{6}		Zhang et al. (2010)	Q	107, 109
	1.9×10^{13}		Zhang et al. (2010)	Q	107, 110
	2.2×10^{12}		Zhang et al. (2010)	Q	107, 111
quizalofop ethyl $C_{19}H_{17}ClN_2O_4$ [76578-14-8]	9.0×10^{2}		HSDB (2015)	V	
pyraclostrobine $C_{19}H_{18}ClN_3O_4$ [175013-18-0]	1.9×10^{5}		MacBean (2012b)	X	137
ponsol red violet 2rnx $C_{21}H_8Cl_3NO_3$ [6373-31-5]	2.4×10^{10}		Zhang et al. (2010)	Q	107, 108
	4.1×10^{7}		Zhang et al. (2010)	Q	107, 109
	9.9×10^{8}		Zhang et al. (2010)	Q	107, 110
	4.6×10^{9}		Zhang et al. (2010)	Q	107, 111
dimethoroph $C_{21}H_{22}NO_4Cl$ [110488-70-5]	9.9×10^{9}		HSDB (2015)	Q	38
aripiprazole $C_{23}H_{27}Cl_2N_3O_2$ [129722-12-9]	9.9×10^{11}		HSDB (2015)	Q	38
ag-g-86814 $C_{26}H_6Cl_8N_2O_4$ [30125-47-4]	1.8×10^{14}		Zhang et al. (2010)	Q	107, 108
	9.7×10^{12}		Zhang et al. (2010)	Q	107, 109
	1.1×10^{11}		Zhang et al. (2010)	Q	107, 110
	4.1×10^{14}		Zhang et al. (2010)	Q	107, 111

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
8,18-dichloro-5,15-diethyl-5,15-dihydrodiindolo(3,2-b:3',2'-m)triphenodioxazine	8.0×10^{6}		Zhang et al. (2010)	Q	107, 108
$C_{34}H_{22}Cl_2N_4O_2$	1.8×10^{12}		Zhang et al. (2010)	Q	107, 109
[6358-30-1]	6.2×10^{6}		Zhang et al. (2010)	Q	107, 110
	1.0×10^{10}		Zhang et al. (2010)	Q	107, 111
Chlorofluorocarbons (C, H, O, N, F, Cl)					
fluoroethene C_2H_3F (vinyl fluoride) [75-02-5]	8.2×10^{-5}		HSDB (2015)	Q	38
1,2-difluoroethane $C_2H_4F_2$ [624-72-6]	2.5×10^{-5}		HSDB (2015)	Q	38
trifluoroethene C_2HF_3 [359-11-5]	2.3×10^{-5}		HSDB (2015)	Q	38
3,3,3-trifluoropropene $C_3H_3F_3$ [677-21-4]	1.3×10^{-5}		HSDB (2015)	Q	38
1,1,3,3,3-pentafluoro-2-(trifluoromethyl)-1-propene C_4F_8 (perfluoroisobutylene) [382-21-8]	2.9×10^{-7}		HSDB (2015)	Q	38
decafluorobutane C_4F_{10} [355-25-9]	1.5×10^{-8}		HSDB (2015)	Q	38
tetradecafluorohexane C_6F_{14} (perflexane) [355-42-0]	5.4×10^{-10}		HSDB (2015)	Q	38
1,1,1,3,3,3-hexafluoro-2-propanone C_3F_6O [684-16-2]	3.2×10^{-3}		HSDB (2015)	Q	38
desflurane $C_3H_2F_6O$ [57041-67-5]	1.4×10^{-4}		HSDB (2015)	Q	38
sevoflurane $C_4H_3F_7O$ [28523-86-6]	5.2×10^{-5}		HSDB (2015)	Q	38
metofluthrin $C_{18}H_{20}F_4O_3$ [240494-70-6]	1.0		HSDB (2015)	V	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
fluoxymesterone $C_{20}H_{29}FO_3$ [76-43-7]	1.6×10^{4}		HSDB (2015)	Q	38
dexamethasone $C_{22}H_{29}FO_5$ [50-02-2]	1.4×10^{2}		HSDB (2015)	Q	38
flocoumafen $C_{33}H_{25}F_3O_4$ [90035-08-8]	1.4×10^{7}		HSDB (2015)	Q	38
chlorofluoromethane	1.5×10^{-3}	2600	Wilhelm et al. (1977)	L	
CH_2FCl	1.5×10^{-3}	2300	Boggs and Buck (1958)	M	
(R31)	1.5×10^{-3}		Hine and Mookerjee (1975)	V	
[593-70-4]	3.4×10^{-3}		Hilal et al. (2008)	Q	
		2600	Kühne et al. (2005)	Q	
	6.1×10^{-4}		Nirmalakhandan and Speece (1988a)	Q	
	1.8×10^{-3}		Irmann (1965)	Q	
		2500	Kühne et al. (2005)	?	
	1.6×10^{-3}		Yaws (1999)	?	
	1.5×10^{-3}		Yaws and Yang (1992)	?	92
chlorodifluoromethane	3.4×10^{-4}	3400	Sander et al. (2011)	L	
CHF_2Cl	3.4×10^{-4}	3400	Wilhelm et al. (1977)	L	
(R22)	3.6×10^{-4}	2700	Zheng et al. (1997)	M	
[75-45-6]	3.5×10^{-4}	3100	Maaßen (1995)	M	
	3.5×10^{-4}	3000	Reichl (1995)	M	
	2.1×10^{-4}	4400	Chang and Criddle (1995)	M	
	3.5×10^{-4}	2600	Boggs and Buck (1958)	M	
	3.3×10^{-4}		Mackay et al. (2006b)	V	
	3.3×10^{-4}		Mackay et al. (1993)	V	
	3.4×10^{-4}	2800	McLinden (1989)	V	277
	3.4×10^{-4}		Hine and Mookerjee (1975)	V	
	3.2×10^{-4}		Irmann (1965)	V	
			Kanakidou et al. (1995)	C	278
	6.0×10^{-4}		Hilal et al. (2008)	Q	
		2600	Kühne et al. (2005)	Q	
	4.0×10^{-4}		Nirmalakhandan and Speece (1988a)	Q	
	3.5×10^{-4}		Irmann (1965)	Q	
		3000	Kühne et al. (2005)	?	
	3.3×10^{-4}		Yaws (1999)	?	
	3.3×10^{-4}		Yaws and Yang (1992)	?	92
dichlorofluoromethane	9.1×10^{-4}		HSDB (2015)	V	
$CHFCl_2$	1.8×10^{-3}		Mackay et al. (1993)	V	
(R21)	1.6×10^{-3}		Hilal et al. (2008)	Q	
[75-43-4]	1.9×10^{-3}		Yaws (1999)	?	
	3.8×10^{-5}		Mackay et al. (1993)	?	
	1.9×10^{-3}		Yaws and Yang (1992)	?	92

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
chlorotrifluoromethane	9.9×10^{-6}	1700	Sander et al. (2011)	L	279
CF_3Cl	9.3×10^{-6}	1600	Wilhelm et al. (1977)	L	
(R13)	8.6×10^{-6}	2200	Reichl (1995)	M	
[75-72-9]	9.2×10^{-6}	1900	Scharlin and Battino (1994)	M	
	7.8×10^{-6}		Park et al. (1982)	M	
	1.5×10^{-4}		Mackay et al. (1993)	V	
	5.7×10^{-6}		Hine and Mookerjee (1975)	V	
	7.2×10^{-6}		Hilal et al. (2008)	C	
	5.7×10^{-6}		Irmann (1965)	C	
	2.6×10^{-5}		Hilal et al. (2008)	Q	
		2600	Kühne et al. (2005)	Q	
	1.4×10^{-5}		Nirmalakhandan and Speece (1988a)	Q	
	5.1×10^{-6}		Irmann (1965)	Q	
		2000	Kühne et al. (2005)	?	
	8.8×10^{-6}		Yaws (1999)	?	
	8.7×10^{-6}		Yaws and Yang (1992)	?	92
dichlorodifluoromethane	3.0×10^{-5}	3400	Warneck and Williams (2012)	L	
CF_2Cl_2	3.0×10^{-5}	3500	Sander et al. (2011)	L	
(R12)	3.0×10^{-5}	3500	Sander et al. (2006)	L	
[75-71-8]	3.1×10^{-5}	3500	Staudinger and Roberts (2001)	L	
	2.1×10^{-5}	1800	Wilhelm et al. (1977)	L	
	1.3×10^{-4}	5500	Hiatt (2013)	M	
	3.0×10^{-5}	3000	Reichl (1995)	M	
	2.9×10^{-5}	2700	Scharlin and Battino (1994)	M	
	3.1×10^{-5}	3500	Munz and Roberts (1987)	M	
	2.9×10^{-5}	3200	Warner and Weiss (1985)	M	
	2.3×10^{-5}	3400	Wisegarver and Cline (1985)	M	127
	2.9×10^{-5}		Park et al. (1982)	M	
	2.5×10^{-5}		Pearson and McConnell (1975)	M	248, 9
	2.4×10^{-5}		Mackay et al. (2006b)	V	
	2.4×10^{-5}		Mackay et al. (1993)	V	
	2.3×10^{-5}		Mackay and Shiu (1981)	V	
	2.3×10^{-5}		Hine and Mookerjee (1975)	V	
	3.5×10^{-6}	-210	Goldstein (1982)	X	116
	3.6×10^{-5}		Hilal et al. (2008)	C	
	6.4×10^{-6}		Ryan et al. (1988)	C	
	2.3×10^{-5}		Irmann (1965)	C	
	5.4×10^{-5}		Hilal et al. (2008)	Q	
		3000	Kühne et al. (2005)	Q	
	4.7×10^{-5}		Nirmalakhandan and Speece (1988a)	Q	
	2.0×10^{-5}		Irmann (1965)	Q	
		3400	Kühne et al. (2005)	?	
	2.5×10^{-5}		Yaws (1999)	?	
	2.5×10^{-5}		Yaws and Yang (1992)	?	92
trichlorofluoromethane	1.1×10^{-4}	3400	Warneck and Williams (2012)	L	
$CFCl_3$	1.1×10^{-4}	3300	Sander et al. (2011)	L	
(R11)	1.1×10^{-4}	3300	Sander et al. (2006)	L	
[75-69-4]	1.1×10^{-4}	3300	Staudinger and Roberts (2001)	L	
	1.0×10^{-4}	3100	Staudinger and Roberts (1996)	L	
	2.8×10^{-4}	5100	Hiatt (2013)	M	
	1.0×10^{-4}	3700	Maaßen (1995)	M	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	1.4×10^{-4}	3800	Reichl (1995)	M	
	9.9×10^{-5}	3500	Ashworth et al. (1988)	M	103
	1.0×10^{-4}	3600	Warner and Weiss (1985)	M	
	7.8×10^{-5}	3900	Wisegarver and Cline (1985)	M	127
	1.1×10^{-4}	2700	Hunter-Smith et al. (1983)	M	251
	1.1×10^{-4}		Park et al. (1982)	M	
	1.7×10^{-4}		Warner et al. (1980)	M	
	1.1×10^{-4}	2100	Balls (1980)	M	
	1.2×10^{-5}		Pearson and McConnell (1975)	M	248, 9
	7.8×10^{-5}		Mackay et al. (2006b)	V	
	9.9×10^{-5}	6100	Fogg and Sangster (2003)	V	
	7.8×10^{-5}		Mackay et al. (1993)	V	
	9.0×10^{-5}		Yoshida et al. (1983)	V	
	9.0×10^{-5}		Mackay and Shiu (1981)	V	
	9.5×10^{-5}		Warner et al. (1980)	V	
	9.8×10^{-5}		Irmann (1965)	V	
	1.7×10^{-4}	730	Goldstein (1982)	X	116
	1.0×10^{-4}		Hilal et al. (2008)	C	
	1.7×10^{-4}		Ryan et al. (1988)	C	
	1.7×10^{-4}		Shen (1982)	C	
	8.1×10^{-5}		Liss and Slater (1974)	C	
	1.7×10^{-4}		Hilal et al. (2008)	Q	
		3300	Kühne et al. (2005)	Q	
	8.6×10^{-5}		Irmann (1965)	Q	
	9.8×10^{-5}		Mackay et al. (2006b)	?	
		3800	Kühne et al. (2005)	?	
	8.1×10^{-5}		Yaws (1999)	?	
	9.8×10^{-5}		Mackay et al. (1993)	?	
	8.1×10^{-5}		Yaws and Yang (1992)	?	92
1,1,1,2-tetrachlorodifluoroethane $C_2Cl_4F_2$ [76-11-9]	6.2×10^{-5} 5.1×10^{-4}		HSDB (2015) Hilal et al. (2008)	V Q	
1,1,2,2-tetrachlorodifluoroethane $C_2F_2Cl_4$ (R112) [76-12-0]	9.0×10^{-5} 1.0×10^{-4} 5.1×10^{-4}		HSDB (2015) Hine and Mookerjee (1975) Hilal et al. (2008)	V V Q	
1,1,1-trichloro-2,2,2-trifluoroethane $C_2F_3Cl_3$ (R113a) [354-58-5]	3.7×10^{-5} 3.7×10^{-5} 2.1×10^{-4} 5.8×10^{-5} 3.0×10^{-5}		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q Q	38 107, 108 107, 109 107, 110 107, 111
1,1,2-trichloro-1,2,2-trifluoroethane $C_2F_3Cl_3$ (R113) [76-13-1]	2.0×10^{-4} 2.9×10^{-5} 3.1×10^{-5} 2.8×10^{-5} 3.4×10^{-5} 1.9×10^{-5} 8.8×10^{-6} 2.0×10^{-5}	5700 4300 4300 6500 3200	Hiatt (2013) Dewulf et al. (1999) Bu and Warner (1995) Reichl (1995) Ashworth et al. (1988) HSDB (2015) Mackay et al. (2006b) Mackay et al. (1993) Hine and Mookerjee (1975)	M M M M M V V V V	 103 256

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	1.8×10^{-4}		Hilal et al. (2008)	Q	
		3700	Kühne et al. (2005)	Q	
	3.1×10^{-5}		Mackay et al. (2006b)	?	
		3800	Kühne et al. (2005)	?	
	3.1×10^{-5}		Mackay et al. (1993)	?	
	2.0×10^{-5}		Yaws and Yang (1992)	?	92
	2.0×10^{-5}		Abraham et al. (1990)	?	
1,1-dichlorotetrafluoroethane	8.2×10^{-6}		HSDB (2015)	V	
$C_2F_4Cl_2$	5.8×10^{-6}		Hine and Mookerjee (1975)	V	
(R114a)	7.5×10^{-6}		Hilal et al. (2008)	C	
[374-07-2]	5.8×10^{-6}		Irmann (1965)	C	113
	8.8×10^{-5}		Hilal et al. (2008)	Q	
	6.6×10^{-6}		Irmann (1965)	Q	
1,2-dichlorotetrafluoroethane	9.0×10^{-6}	2800	Reichl (1995)	M	
$C_2F_4Cl_2$	7.9×10^{-6}		Mackay et al. (1993)	V	
(R114)	8.0×10^{-6}		Hine and Mookerjee (1975)	V	
[76-14-2]	8.1×10^{-6}		Irmann (1965)	C	9
	8.4×10^{-5}		Hilal et al. (2008)	Q	
		3300	Kühne et al. (2005)	Q	
	6.6×10^{-6}		Irmann (1965)	Q	
		2700	Kühne et al. (2005)	?	
	8.1×10^{-6}		Yaws and Yang (1992)	?	92
chloropentafluoroethane	3.4×10^{-6}	2800	Wilhelm et al. (1977)	L	
C_2F_5Cl	3.1×10^{-6}	2100	Reichl (1995)	M	
(R115)	1.8×10^{-6}		HSDB (2015)	V	
[76-15-3]	3.8×10^{-6}		Mackay et al. (1993)	V	
	3.7×10^{-6}		Meylan and Howard (1991)	V	
	3.2×10^{-6}		Hine and Mookerjee (1975)	V	
	3.2×10^{-6}		Irmann (1965)	C	
	3.4×10^{-5}		Hilal et al. (2008)	Q	
		2900	Kühne et al. (2005)	Q	
	1.2×10^{-6}		Meylan and Howard (1991)	Q	
	2.1×10^{-6}		Irmann (1965)	Q	
		2000	Kühne et al. (2005)	?	
	3.8×10^{-6}		Yaws and Yang (1992)	?	92
1,1,2,2-tetrachloro-1-fluoroethane C_2HCl_4F [354-14-3]	3.3×10^{-3}		HSDB (2015)	Q	38
1,1-dichloro-1,2,2-trifluoroethane $C_2HCl_2F_3$ [812-04-4]	1.0×10^{-4}		HSDB (2015)	Q	38
1,2-dichloro-1,1,2-trifluoroethane $C_2HCl_2F_3$ [354-23-4]	1.0×10^{-4}		HSDB (2015)	Q	38
2,2-dichloro-1,1,1-trifluoroethane	2.3×10^{-4}	2400	Kutsuna (2013)	M	
$C_2HF_3Cl_2$	3.3×10^{-4}	3400	Chang and Criddle (1995)	M	
(R123)	2.8×10^{-4}	2600	McLinden (1989)	V	
[306-83-2]	5.0×10^{-4}		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1-chloro-1,1,2,2-tetrafluoroethane C_2HClF_4 [354-25-6]	1.8×10^{-5}		HSDB (2015)	Q	38
1-chloro-1,2,2,2-tetrafluoroethane C_2HF_4Cl (R124) [2837-89-0]	1.1×10^{-4}	2800	Kutsuna (2013)	M	
	1.0×10^{-4}	3500	Maaßen (1995)	M	
	1.1×10^{-4}	3400	Reichl (1995)	M	
	1.0×10^{-4}	3200	McLinden (1989)	V	
		2900	Kühne et al. (2005)	Q	
		3400	Kühne et al. (2005)	?	
1,2-dichloro-1,1-difluoroethane $C_2H_2Cl_2F_2$ [1649-08-7]	1.4×10^{-4}		HSDB (2015)	V	
2-chloro-1,1,1-trifluoroethane $C_2H_2F_3Cl$ (R133a) [75-88-7]	3.7×10^{-4}	3600	Maaßen (1995)	M	
	4.1×10^{-4}	3500	Reichl (1995)	M	
	3.7×10^{-4}		Hine and Mookerjee (1975)	V	
	3.7×10^{-4}		Irmann (1965)	C	
	3.7×10^{-5}		HSDB (2015)	Q	38
	3.0×10^{-4}		Hilal et al. (2008)	Q	
	3.9×10^{-4}		Nirmalakhandan and Speece (1988a)	Q	
	2.9×10^{-4}		Irmann (1965)	Q	
1,1-dichloro-1-fluoroethane CH_3CFCl_2 (R141b) [1717-00-6]	2.9×10^{-4}	2800	Kutsuna (2013)	M	
	2.9×10^{-4}	3700	Maaßen (1995)	M	
	4.5×10^{-4}		HSDB (2015)	V	
	7.7×10^{-5}	5200	McLinden (1989)	V	
		3300	Kühne et al. (2005)	Q	
		3700	Kühne et al. (2005)	?	
1-chloro-1,1-difluoroethane CH_3CF_2Cl (R142b) [75-68-3]	1.5×10^{-4}	2600	Kutsuna (2013)	M	
	1.4×10^{-4}	3200	Maaßen (1995)	M	
	1.4×10^{-4}	3200	Reichl (1995)	M	
	1.5×10^{-4}	3000	Chang and Criddle (1995)	M	
	1.4×10^{-4}	2500	McLinden (1989)	V	
	1.9×10^{-4}		Irmann (1965)	C	113
	1.5×10^{-4}		Irmann (1965)	Q	
1-chloro-1,2-difluoroethane $C_2H_3ClF_2$ [338-64-7]		2900	Kühne et al. (2005)	Q	
		3200	Kühne et al. (2005)	?	
1-chloro-1,1,2-trifluoroethane $C_2H_2F_3Cl$ (R133b) [421-04-5]		2900	Kühne et al. (2005)	Q	
		3500	Kühne et al. (2005)	?	
2-chloro-1,1-difluoroethene C_2HClF_2 (R1122) [359-10-4]	1.7×10^{-4}	3300	Maaßen (1995)	M	
	1.7×10^{-4}	3300	Reichl (1995)	M	
		2800	Kühne et al. (2005)	Q	
		3300	Kühne et al. (2005)	?	
chlorotrifluoroethene C_2ClF_3 [79-38-9]	3.2×10^{-5}		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
3,3-dichloro-1,1,1,2,2-pentafluoropropane	9.8×10^{-5}	3500	Kutsuna (2013)	M	
$CF_3CF_2CHCl_2$	9.0×10^{-5}		HSDB (2015)	Q	38
(R225ca)	2.0×10^{-5}		Zhang et al. (2010)	Q	107, 108
[422-56-0]	3.0×10^{-4}		Zhang et al. (2010)	Q	107, 109
	1.1×10^{-4}		Zhang et al. (2010)	Q	107, 110
	3.9×10^{-5}		Zhang et al. (2010)	Q	107, 111
1,3-dichloro-1,1,2,2,3-pentafluoro-propane	1.1×10^{-4}	3100	Kutsuna (2013)	M	
$CClF_2CF_2CHClF$	3.6×10^{-6}		HSDB (2015)	Q	38
(R225cb)					
[507-55-1]					
1-chloro-3-(trifluoromethyl)benzene	2.9×10^{-4}		Zhang et al. (2010)	Q	107, 108
$C_7H_4ClF_3$	2.8×10^{-3}		Zhang et al. (2010)	Q	107, 109
[98-15-7]	1.4×10^{-3}		Zhang et al. (2010)	Q	107, 110
	1.4×10^{-4}		Zhang et al. (2010)	Q	107, 111
1-chloro-4-(trifluoromethyl)benzene	2.8×10^{-4}		HSDB (2015)	Q	38
$C_7H_4ClF_3$	2.9×10^{-4}		Zhang et al. (2010)	Q	107, 108
[98-56-6]	3.1×10^{-3}		Zhang et al. (2010)	Q	107, 109
	1.5×10^{-3}		Zhang et al. (2010)	Q	107, 110
	1.4×10^{-4}		Zhang et al. (2010)	Q	107, 111
3-chloro-4-fluorobenzotrifluoride	2.4×10^{-4}		Zhang et al. (2010)	Q	107, 108
$C_7H_3ClF_4$	2.5×10^{-3}		Zhang et al. (2010)	Q	107, 109
[78068-85-6]	8.6×10^{-4}		Zhang et al. (2010)	Q	107, 110
	1.1×10^{-4}		Zhang et al. (2010)	Q	107, 111
3,4-dichlorobenzotrifluoride	3.8×10^{-4}		HSDB (2015)	Q	38
$C_7H_3Cl_2F_3$	3.9×10^{-4}		Zhang et al. (2010)	Q	107, 108
[328-84-7]	5.3×10^{-3}		Zhang et al. (2010)	Q	107, 109
	2.0×10^{-3}		Zhang et al. (2010)	Q	107, 110
	2.3×10^{-4}		Zhang et al. (2010)	Q	107, 111
chlorodifluoroethanoic acid	2.5×10^{2}	10000	Sander et al. (2011)	L	
$CF_2ClCOOH$	2.4×10^{2}	10000	Bowden et al. (1998a)	M	
(chlorodifluoroacetic acid)					
[76-04-0]					
carbonic chloride fluoride	9.9×10^{-2}		George et al. (1993)	X	238
$COFCl$					
[353-49-1]					
trifluoroacetylchloride	2.0×10^{-2}		Mirabel et al. (1996)	M	
CF_3COCl	2.7×10^{-3}		De Bruyn et al. (1995a)	M	183
[354-32-5]	2.0×10^{-2}		George et al. (1994b)	M	239

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,2-dichloro-1,1-difluoro-1-methoxyethane	2.9×10^{-3}	4100	Fogg and Sangster (2003)	L	
$C_3H_4Cl_2F_2O$	1.7×10^{-3}		Steward et al. (1973)	L	19
(methoxyflurane)	1.7×10^{-3}		Lerman et al. (1983)	M	19
[76-38-0]	2.8×10^{-3}	3300	Smith et al. (1981b)	M	
	1.8×10^{-3}		Stoelting and Longshore (1972)	M	19
	4.1×10^{-3}		Hilal et al. (2008)	Q	
		4800	Kühne et al. (2005)	Q	
	2.7×10^{-3}		HSDB (2015)	?	170
		4000	Kühne et al. (2005)	?	
	2.7×10^{-3}		Abraham et al. (1990)	?	
1-chloro-2,2,2-trifluoroethyl difluoromethyl ether	2.4×10^{-4}		Fogg and Sangster (2003)	L	
$C_3H_2ClF_5O$	2.4×10^{-4}		Steward et al. (1973)	L	19
(forane; isoflurane)	2.4×10^{-4}		Lerman et al. (1983)	M	19
[26675-46-7]	4.8×10^{-4}	5300	Smith et al. (1981b)	M	
	4.2×10^{-4}		Hilal et al. (2008)	Q	
		4400	Kühne et al. (2005)	Q	
	3.4×10^{-4}		HSDB (2015)	?	170
		4500	Kühne et al. (2005)	?	
	3.4×10^{-4}		Abraham et al. (1990)	?	
2-chloro-1,1,2-trifluoroethyl difluoromethyl ether	3.0×10^{-4}		Fogg and Sangster (2003)	L	
$C_3H_2ClF_5O$	2.7×10^{-4}		Guitart et al. (1989)	M	19
(enflurane)	2.9×10^{-4}		Lerman et al. (1983)	M	19
[13838-16-9]	1.3×10^{-3}		HSDB (2015)	V	
	3.0×10^{-4}		Steward et al. (1973)	C	19
	6.9×10^{-4}		Hilal et al. (2008)	Q	
3-[2-chloro-4-(trifluoromethyl)phenoxy]benzoic acid	6.4×10^{2}		Zhang et al. (2010)	Q	107, 108
$C_{14}H_8ClF_3O_3$	3.3×10^{2}		Zhang et al. (2010)	Q	107, 109
[63734-62-3]	2.1×10^{5}		Zhang et al. (2010)	Q	107, 110
	2.9×10^{3}		Zhang et al. (2010)	Q	107, 111
3-(2-chloro-4-(trifluoromethyl)phenoxy)phenyl acetate	1.1		Zhang et al. (2010)	Q	107, 108
$C_{15}H_{10}ClF_3O_3$	2.4×10^{1}		Zhang et al. (2010)	Q	107, 109
[50594-77-9]	2.9×10^{1}		Zhang et al. (2010)	Q	107, 110
	3.6		Zhang et al. (2010)	Q	107, 111
tefluthrin	6.2×10^{-3}		HSDB (2015)	V	
$C_{17}H_{14}O_2ClF_7$					
[79538-32-2]					
clobetasol	6.2×10^{4}		HSDB (2015)	Q	38
$C_{22}H_{28}ClFO_4$					
[25122-41-2]					

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
EINECS 273-236-7	1.5×10^{14}		Zhang et al. (2010)	Q	107, 108
$C_{28}H_{33}Cl_3F_6O_{11}$	6.9×10^{18}		Zhang et al. (2010)	Q	107, 109
[68954-01-8]	2.3×10^{12}		Zhang et al. (2010)	Q	107, 110
	1.6×10^{15}		Zhang et al. (2010)	Q	107, 111
4-fluoroaniline C_6H_6FN [371-40-4]	1.6		HSDB (2015)	Q	182
N-ethyl-1-[3-(trifluoromethyl)phenyl]-2-propanamine $C_{12}H_{16}F_3N$ (fenfluramine) [458-24-2]	3.7×10^{-1}		HSDB (2015)	Q	38
cinacalcet $C_{22}H_{22}F_3N$ [226256-56-0]	4.5×10^{1}		HSDB (2015)	Q	38
hydramethylnon $C_{25}H_{24}F_6N_4$ [67485-29-4]	4.5		HSDB (2015)	V	
3,5-dichloro-2,4,6-trifluoropyridine	1.6		Zhang et al. (2010)	Q	107, 108
$C_5Cl_2F_3N$	7.7×10^{-4}		Zhang et al. (2010)	Q	107, 109
[1737-93-5]	1.6×10^{-3}		Zhang et al. (2010)	Q	107, 110
	2.7×10^{-2}		Zhang et al. (2010)	Q	107, 111
chlorodifluoronitrooxymethane $CClF_2OONO_2$ [70490-95-8]	2.9×10^{-2}	5900	Kanakidou et al. (1995)	E	280
1-chloro-2-nitro-4-(trifluoromethyl)-benzene	7.2×10^{-2}		Zhang et al. (2010)	Q	107, 108
$C_7H_3ClF_3NO_2$	1.2×10^{-1}		Zhang et al. (2010)	Q	107, 109
[121-17-5]	1.1×10^{-1}		Zhang et al. (2010)	Q	107, 110
	1.0×10^{-2}		Zhang et al. (2010)	Q	107, 111
2-chloro-1,3-dinitro-5-(trifluoromethyl)-benzene	1.8×10^{1}		Zhang et al. (2010)	Q	107, 108
$C_7H_2ClF_3N_2O_4$	2.8		Zhang et al. (2010)	Q	107, 109
[393-75-9]	1.7×10^{-1}		Zhang et al. (2010)	Q	107, 110
	9.0×10^{-1}		Zhang et al. (2010)	Q	107, 111
fluroxypyr $C_7H_5Cl_2FN_2O_3$ [69377-81-7]	5.7×10^{5}		HSDB (2015)	V	
norflurazon $C_{12}H_9ClF_3N_3O$ [27314-13-2]	2.9×10^{4}		HSDB (2015)	V	
fluchloralin	6.6×10^{-1}		HSDB (2015)	V	
$C_{12}H_{13}ClF_3N_3O_4$	7.4×10^{-1}		Mackay et al. (2006d)	V	
[33245-39-5]					

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
fluazinam $C_{13}H_4Cl_2F_6N_4O_4$ [79622-59-6]	3.9×10^{-2}		HSDB (2015)	V	
5-(2-chloro-4-(trifluoromethyl)phenoxy)-2-nitrophenol $C_{13}H_7ClF_3NO_4$ [42874-63-5]	9.9		Zhang et al. (2010)	Q	107, 108
	1.1×10^{3}		Zhang et al. (2010)	Q	107, 109
	2.3×10^{6}		Zhang et al. (2010)	Q	107, 110
	2.3×10^{1}		Zhang et al. (2010)	Q	107, 111
tetraconazole $C_{13}H_{11}Cl_2F_4N_3O$ [112281-77-3]	2.3×10^{3}		HSDB (2015)	V	
fluopicolide $C_{14}H_8Cl_3F_3N_2O$ [239110-15-7]	9.0×10^{3}		HSDB (2015)	V	
difluron $C_{14}H_9ClF_2N_2O_2$ [35367-38-5]	2.1×10^{3}		HSDB (2015)	V	
	2.1×10^{3}		Mackay et al. (2006d)	V	
efavirenz $C_{14}H_9ClF_3NO_2$ [154598-52-4]	1.4×10^{3}		HSDB (2015)	Q	38
quinoxyfen $C_{15}H_8Cl_2FNO$ [124495-18-7]	1.0×10^{3}		HSDB (2015)	Q	38
5-(2-chloro-4-(trifluoromethyl)phenoxy)-2-nitrophenyl acetate $C_{15}H_9ClF_3NO_5$ [50594-44-0]	2.7×10^{2}		Zhang et al. (2010)	Q	107, 108
	1.5×10^{3}		Zhang et al. (2010)	Q	107, 109
	3.7×10^{4}		Zhang et al. (2010)	Q	107, 110
	3.1×10^{2}		Zhang et al. (2010)	Q	107, 111
oxyfluorfen $C_{15}H_{11}ClF_3NO_4$ [42874-03-3]	1.2×10^{1}		HSDB (2015)	V	
pyraflufen-ethyl $C_{15}H_{13}Cl_2F_3N_2O_4$ [129630-19-9]	1.2×10^{4}		MacBean (2012b)	X	137
carfentrazone ethyl $C_{15}H_{14}Cl_2F_3N_3O_3$ [128639-02-1]	3.3×10^{3}		HSDB (2015)	V	
triflumizole $C_{15}H_{15}ClF_3N_3O$ [99387-89-0]	2.5×10^{7}		Mackay et al. (2006d)	V	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
3-(2,4-dichlorophenyl)-6-fluoro-2-(1H-1,2,4-triazol-1-yl)-quinazolin-4(3H)-one $C_{16}H_8Cl_2FN_5O$ (fluquinconazole) [136426-54-5]	5.6×10^{8}		Hilal et al. (2008)	Q	
hexaflumuron $C_{16}H_8Cl_2F_6N_2O_3$ [86479-06-3]	9.9×10^{-1}		HSDB (2015)	V	
nuarimol $C_{17}H_{12}ClFN_2O$ [63284-71-9]	1.5×10^{7}		MacBean (2012a)	?	
clodinafop-propargyl $C_{17}H_{13}ClFNO_4$ [105512-06-9]	3.5×10^{3}		HSDB (2015)	V	
flamprop-methyl $C_{17}H_{15}ClFNO_3$ [52756-25-9]	2.2×10^{3}		MacBean (2012a)	?	
pyridalyl $C_{18}H_{14}Cl_4F_3NO_3$ [179101-81-6]	4.9×10^{6}		HSDB (2015)	V	
lactofen $C_{19}H_{15}ClF_3NO_7$ [77501-63-4]	2.3×10^{1}		HSDB (2015)	V	
chlorfluzuron $C_{20}H_9Cl_3F_5N_3O_3$ [71422-67-8]	3.9×10^{8}		Hilal et al. (2008)	Q	
fluazuron $C_{20}H_{10}N_3O_3Cl_2F_5$ [86811-58-7]	$>2.3\times10^{10}$		MacBean (2012a)	?	
flufenoxuron $C_{21}H_{11}ClF_6N_2O_3$ [101463-69-8]	3.8×10^{6}		HSDB (2015)	Q	38
fluoxastrobin $C_{21}H_{16}N_4O_5ClF$ [361377-29-9]	9.0×10^{6}		HSDB (2015)	V	
haloperidol $C_{21}H_{23}ClFNO_2$ [52-86-8]	4.3×10^{8}		HSDB (2015)	Q	38
indoxacarb $C_{22}H_{17}ClF_3N_3O_7$ [173584-44-6]	1.5×10^{4}		HSDB (2015)	V	
cyfluthrin $C_{22}H_{18}Cl_2FNO_3$ [68359-37-5]	3.4×10^{2}		HSDB (2015)	V	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
metamifop $C_{23}H_{18}N_2O_4ClF$ [256412-89-2]	1.6×10^{1}		MacBean (2012a)	?	9
cyhalothrin $C_{23}H_{19}NO_3ClF_3$ [68085-85-8]	7.0×10^{-1}		HSDB (2015)	Q	38
bifenthrin $C_{23}H_{22}ClF_3O_2$ [82657-04-3]	9.9 9.9 4.7		HSDB (2015) Hilal et al. (2008) Hilal et al. (2008)	V C Q	
flucycloxuron $C_{25}H_{20}ClF_2N_3O_3$ [94050-52-9]	3.8×10^{1}		MacBean (2012a)	?	
fluvalinate $C_{26}H_{22}ClF_3N_2O_3$ [69409-94-5]	6.6×10^{2}		HSDB (2015)	Q	38
Organic species with bromine (Br)					
Bromocarbons (C, H, O, N, Br)					
bromomethane CH_3Br (methyl bromide) [74-83-9]	1.7×10^{-3}	3100	Sander et al. (2011)	L	
	1.7×10^{-3}	3100	Sander et al. (2006)	L	
	1.7×10^{-3}	3100	Staudinger and Roberts (2001)	L	
	1.6×10^{-3}	3100	Wilhelm et al. (1977)	L	
	1.3×10^{-3}	2800	Hiatt (2013)	M	
	1.4×10^{-3}		Gan and Yates (1996)	M	113
	1.7×10^{-3}	3400	Elliott and Rowland (1993)	M	
	1.5×10^{-3}	2600	Swain and Thornton (1962)	M	
	1.6×10^{-3}	3200	Glew and Moelwyn-Hughes (1953)	M	
	1.6×10^{-3}		Mackay et al. (2006b)	V	
	1.6×10^{-3}		Lide and Frederikse (1995)	V	
	1.6×10^{-3}		Mackay et al. (1993)	V	
	1.9×10^{-3}		Mackay and Shiu (1981)	V	9
	1.5×10^{-3}		Hine and Mookerjee (1975)	V	
	4.4×10^{-5}	350	Goldstein (1982)	X	116
		3400	Kühne et al. (2005)	Q	
	3.1×10^{-3}		Nirmalakhandan and Speece (1988a)	Q	
	7.9×10^{-4}		Irmann (1965)	Q	
		3200	Kühne et al. (2005)	?	
	1.5×10^{-3}		Yaws (1999)	?	
	1.7×10^{-3}		Yates and Gan (1998)	?	
	1.4×10^{-3}		Yaws and Yang (1992)	?	92
	1.6×10^{-3}		Abraham et al. (1990)	?	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
dibromomethane	3.1×10^{-2}		Mackay and Shiu (1981)	L	
CH_2Br_2	1.2×10^{-2}	5000	Hiatt (2013)	M	
[74-95-3]	1.4×10^{-2}		Dohnal and Hovorka (1999)	M	9
	1.5×10^{-2}		Hovorka and Dohnal (1997)	M	9
	1.2×10^{-2}	4900	Kondoh and Nakajima (1997)	M	
	9.2×10^{-3}	4700	Moore et al. (1995)	M	127
	1.1×10^{-2}	3900	Wright et al. (1992)	M	
	1.1×10^{-2}	4100	Tse et al. (1992)	M	
	1.1×10^{-2}	4400	Rex (1906)	M	
	1.1×10^{-2}		Mackay et al. (2006b)	V	
	1.3×10^{-2}	4200	Fogg and Sangster (2003)	V	
	7.1×10^{-3}		Mackay et al. (1993)	V	
	1.1×10^{-2}		Hine and Mookerjee (1975)	V	
	3.8×10^{-2}		Hilal et al. (2008)	Q	
		4500	Kühne et al. (2005)	Q	
	9.5×10^{-3}		Nirmalakhandan and Speece (1988a)	Q	
	1.2×10^{-2}		Mackay et al. (2006b)	?	
		4300	Kühne et al. (2005)	?	
	1.1×10^{-2}		Yaws (1999)	?	
	1.2×10^{-2}		Mackay et al. (1993)	?	
	1.1×10^{-2}		Abraham et al. (1990)	?	
tribromomethane	1.7×10^{-2}	5200	Sander et al. (2011)	L	
$CHBr_3$	1.7×10^{-2}	5200	Sander et al. (2006)	L	
(bromoform)	1.7×10^{-2}	5200	Staudinger and Roberts (2001)	L	
[75-25-2]	1.7×10^{-2}	5200	Staudinger and Roberts (1996)	L	
	1.6×10^{-2}		Mackay and Shiu (1981)	L	
	2.2×10^{-2}	6300	Hiatt (2013)	M	
	9.6×10^{-3}		Zhang et al. (2002)	M	19
	2.3×10^{-2}		Hovorka and Dohnal (1997)	M	9
	1.4×10^{-2}	4500	Kondoh and Nakajima (1997)	M	
	1.4×10^{-2}	5200	Moore et al. (1995)	M	127
	8.5×10^{-3}	1500	Khalfaoui and Newsham (1994a)	M	
	2.3×10^{-2}	5700	Wright et al. (1992)	M	
	1.9×10^{-2}	5000	Tse et al. (1992)	M	
	1.8×10^{-2}	4700	Munz and Roberts (1987)	M	
	1.6×10^{-2}	5700	Nicholson et al. (1984)	M	
	1.9×10^{-2}		Warner et al. (1980)	M	
	1.7×10^{-2}		Mackay et al. (2006b)	V	
	1.8×10^{-2}	5300	Fogg and Sangster (2003)	V	
	1.7×10^{-2}		Mackay et al. (1993)	V	
	1.7×10^{-2}		Warner et al. (1980)	V	
	1.5×10^{-2}		Hine and Mookerjee (1975)	V	
	1.8×10^{-2}	2700	Goldstein (1982)	X	116
	1.7×10^{-2}		Ryan et al. (1988)	C	
	1.7×10^{-2}		Nicholson et al. (1984)	C	
	1.9×10^{-2}		Shen (1982)	C	
	7.3×10^{-3}		Hilal et al. (2008)	Q	
		5600	Kühne et al. (2005)	Q	
	2.4×10^{-2}		Nirmalakhandan and Speece (1988a)	Q	
	2.1×10^{-2}		Mackay et al. (2006b)	?	
		5000	Kühne et al. (2005)	?	
	1.7×10^{-2}		Yaws (1999)	?	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	2.1×10^{-2}		Mackay et al. (1993)	?	
	1.5×10^{-2}		Abraham et al. (1990)	?	
tetrabromomethane	2.0×10^{-2}		HSDB (2015)	V	
CBr_4	1.2×10^{-2}		Fogg and Sangster (2003)	V	281, 23
[558-13-4]	2.0×10^{-2}		Hilal et al. (2008)	C	
	2.1×10^{-3}		Hilal et al. (2008)	Q	
bromoethane	1.3×10^{-3}		Li et al. (1993)	M	
C_2H_5Br	1.3×10^{-3}	3900	Rex (1906)	M	
[74-96-4]			Mackay et al. (2006b)	V	256
	8.1×10^{-4}		Mackay et al. (1993)	V	
	1.4×10^{-3}		Abraham (1984)	V	
	1.3×10^{-3}		Hine and Mookerjee (1975)	V	
	9.2×10^{-5}		Ryan et al. (1988)	C	
	3.4×10^{-3}		Hilal et al. (2008)	Q	
		3700	Kühne et al. (2005)	Q	
	1.6×10^{-3}		Nirmalakhandan and Speece (1988a)	Q	
		3800	Kühne et al. (2005)	?	
	1.3×10^{-3}		Yaws and Yang (1992)	?	92
	1.4×10^{-3}		Abraham et al. (1990)	?	
1,1-dibromoethane	7.6×10^{-3}		HSDB (2015)	Q	38
$C_2H_4Br_2$					
[557-91-5]					
1,2-dibromoethane	1.7×10^{-2}	5500	Hiatt (2013)	M	
$C_2H_4Br_2$	1.9×10^{-2}		Dohnal and Hovorka (1999)	M	9
(ethylene dibromide)	1.9×10^{-2}		Hovorka and Dohnal (1997)	M	9
[106-93-4]	1.8×10^{-2}	5500	Kondoh and Nakajima (1997)	M	
	1.1×10^{-2}	3000	Khalfaoui and Newsham (1994a)	M	
	1.5×10^{-2}	3900	Ashworth et al. (1988)	M	103
	1.5×10^{-2}		Mackay et al. (2006b)	V	
	2.1×10^{-3}		Mackay et al. (1993)	V	
	1.4×10^{-2}		Hine and Mookerjee (1975)	V	
	1.1×10^{-2}	1900	Goldstein (1982)	X	116
	1.5×10^{-2}		HSDB (2015)	C	
	3.9×10^{-2}		Hilal et al. (2008)	Q	
		4800	Kühne et al. (2005)	Q	
	7.5×10^{-3}		Nirmalakhandan and Speece (1988a)	Q	
	1.5×10^{-2}		Mackay et al. (2006b)	?	
		4200	Kühne et al. (2005)	?	
	1.5×10^{-2}		Mackay et al. (1993)	?	
	1.4×10^{-2}		Yaws and Yang (1992)	?	92
	2.1×10^{-2}		Abraham et al. (1990)	?	
	1.6×10^{-2}		Mackay and Yeun (1983)	?	
	1.8×10^{-2}		Chiou et al. (1980)	?	27
1,2-dibromoethane-d4	1.6×10^{-2}	4800	Hiatt (2013)	M	
$C_2D_4Br_2$					
(ethylene dibromide-d4)					
[22581-63-1]					

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1,1,2,2-tetrabromoethane	1.0×10^{-2}	840	Khalfaoui and Newsham (1994a)	M	
$C_2H_2Br_4$	7.6×10^{-1}		HSDB (2015)	V	
[79-27-6]	5.7×10^{-1}		Zhang et al. (2010)	Q	107, 108
	2.9×10^{-1}		Zhang et al. (2010)	Q	107, 109
	4.3×10^{-1}		Zhang et al. (2010)	Q	107, 110
	1.5×10^{-1}		Zhang et al. (2010)	Q	107, 111
	2.4×10^{-1}		Hilal et al. (2008)	Q	
1-bromopropane	1.1×10^{-3}		Li et al. (1993)	M	
C_3H_7Br	1.1×10^{-3}	4500	Rex (1906)	M	
[106-94-5]	1.4×10^{-3}		HSDB (2015)	V	
	2.6×10^{-4}		Mackay et al. (2006b)	V	
	2.6×10^{-4}		Mackay et al. (1993)	V	
	1.0×10^{-3}		Abraham (1984)	V	
	1.0×10^{-3}		Hine and Mookerjee (1975)	V	
	2.8×10^{-3}		Hilal et al. (2008)	Q	
	1.3×10^{-3}		Nirmalakhandan and Speece (1988a)	Q	
	1.4×10^{-3}		Yaws and Yang (1992)	?	92, 9
	1.0×10^{-3}		Abraham et al. (1990)	?	
2-bromopropane	8.4×10^{-4}		Li et al. (1993)	M	
C_3H_7Br	9.0×10^{-4}	4500	Rex (1906)	M	
[75-26-3]	9.0×10^{-4}		HSDB (2015)	V	
	7.9×10^{-4}		Mackay et al. (2006b)	V	
	7.9×10^{-4}		Mackay et al. (1993)	V	
	9.0×10^{-4}		Hine and Mookerjee (1975)	V	
	1.5×10^{-3}		Hilal et al. (2008)	Q	
	9.2×10^{-4}		Nirmalakhandan and Speece (1988a)	Q	
	1.0×10^{-3}		Yaws and Yang (1992)	?	92, 9
	9.0×10^{-4}		Abraham et al. (1990)	?	
1,2-dibromopropane	6.8×10^{-3}		HSDB (2015)	V	
$C_3H_6Br_2$	6.8×10^{-3}		Mackay et al. (2006b)	V	
[78-75-1]	1.1×10^{-2}		Hine and Mookerjee (1975)	V	
	1.9×10^{-2}		Hilal et al. (2008)	Q	
	4.4×10^{-3}		Nirmalakhandan and Speece (1988a)	Q	
	6.6×10^{-3}		Yaws and Yang (1992)	?	92
1,3-dibromopropane	1.1×10^{-3}		Mackay et al. (1993)	V	
$C_3H_6Br_2$	1.1×10^{-2}		Hine and Mookerjee (1975)	V	
[109-64-8]	7.2×10^{-2}		Hilal et al. (2008)	Q	
	6.0×10^{-3}		Nirmalakhandan and Speece (1988a)	Q	
1-bromobutane	4.6×10^{-4}		Hoff et al. (1993)	M	
C_4H_9Br	8.2×10^{-4}		Li et al. (1993)	M	
[109-65-9]	1.1×10^{-3}		HSDB (2015)	V	
	8.0×10^{-4}		Abraham (1984)	V	
	8.0×10^{-4}		Hine and Mookerjee (1975)	V	
	2.2×10^{-3}		Hilal et al. (2008)	Q	
	1.0×10^{-3}		Nirmalakhandan and Speece (1988a)	Q	
	8.3×10^{-4}		Haynes (2014)	?	282
	8.1×10^{-4}		Yaws and Yang (1992)	?	92
	7.9×10^{-4}		Abraham et al. (1990)	?	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2-bromobutane	7.7×10^{-4}		Li et al. (1993)	M	
C_4H_9Br	6.2×10^{-4}		HSDB (2015)	Q	38
[78-76-2]	1.4×10^{-3}		Hilal et al. (2008)	Q	
1-bromo-2-methylpropane	4.2×10^{-4}		Hine and Mookerjee (1975)	V	
C_4H_9Br	2.0×10^{-3}		Hilal et al. (2008)	Q	
[78-77-3]	8.6×10^{-4}		Nirmalakhandan et al. (1997)	Q	
	4.2×10^{-4}		Abraham et al. (1990)	?	
2-bromo-2-methylpropane	2.4×10^{-4}		HSDB (2015)	V	
C_4H_9Br	5.2×10^{-4}		Hilal et al. (2008)	Q	
[507-19-7]	5.2×10^{-4}		Nirmalakhandan et al. (1997)	Q	
	3.1×10^{-4}		Yaws and Yang (1992)	?	92, 119
	9.7×10^{-5}		Abraham et al. (1990)	?	
1-bromo-3-methylbutane	4.9×10^{-4}		Mackay et al. (1993)	V	
$C_5H_{11}Br$	2.9×10^{-4}		Hine and Mookerjee (1975)	V	
[107-82-4]	1.8×10^{-3}		Hilal et al. (2008)	Q	
	7.0×10^{-4}		Nirmalakhandan et al. (1997)	Q	
1,4-dibromobutane $C_4H_8Br_2$ [110-52-1]	7.3×10^{-2}		Hilal et al. (2008)	Q	
1-bromopentane	4.7×10^{-4}		Abraham (1984)	V	
$C_5H_{11}Br$	1.8×10^{-3}		Hilal et al. (2008)	Q	
[110-53-2]	8.0×10^{-4}		Nirmalakhandan et al. (1997)	Q	
	5.0×10^{-4}		Yaws and Yang (1992)	?	92
	4.7×10^{-4}		Abraham et al. (1990)	?	
1-bromo-2-methylbutane $C_5H_{11}Br$ [10422-35-2]	8.8×10^{-4}		Nirmalakhandan and Speece (1988a)	Q	
1-bromohexane	3.0×10^{-4}		Abraham (1984)	V	
$C_6H_{13}Br$	1.5×10^{-3}		Hilal et al. (2008)	Q	
[111-25-1]	6.2×10^{-4}		Nirmalakhandan et al. (1997)	Q	
	3.0×10^{-4}		Abraham et al. (1990)	?	
1-bromo-3-methylpentane $C_6H_{13}Br$ [51116-73-5]	5.8×10^{-4}		Nirmalakhandan and Speece (1988a)	Q	
bromocyclohexane $C_6H_{11}Br$ [108-85-0]	7.0×10^{-3}		Hilal et al. (2008)	Q	
1-bromoheptane	2.3×10^{-4}		Abraham (1984)	V	
$C_7H_{15}Br$	1.2×10^{-3}		Hilal et al. (2008)	Q	
[629-04-9]	5.0×10^{-4}		Nirmalakhandan et al. (1997)	Q	
	2.3×10^{-4}		Abraham et al. (1990)	?	
1-bromooctane	2.4×10^{-4}	4600	Sarraute et al. (2004)	V	
$C_8H_{17}Br$	1.7×10^{-4}		Abraham (1984)	V	
[111-83-1]	9.7×10^{-4}		Hilal et al. (2008)	Q	
	3.9×10^{-4}		Nirmalakhandan et al. (1997)	Q	
	1.7×10^{-4}		Abraham et al. (1990)	?	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1,8-dibromooctane $C_8H_{16}Br_2$ [4549-32-0]	1.4×10^{-2}	7300	Sarraute et al. (2006)	M	
1,2-dibromo-4-(1,2-dibromoethyl)cyclohexane	1.7×10^{2}		HSDB (2015)	Q	38
$C_8H_{12}Br_4$	2.4×10^{-1}		Zhang et al. (2010)	Q	107, 108
[3322-93-8]	2.9		Zhang et al. (2010)	Q	107, 109
	1.0×10^{1}		Zhang et al. (2010)	Q	107, 110
	2.5×10^{-1}		Zhang et al. (2010)	Q	107, 111
1-bromononane $C_9H_{19}Br$ [693-58-3]	7.9×10^{-4}		Hilal et al. (2008)	Q	
hexabromocyclododecane	2.1×10^{-1}		HSDB (2015)	V	
$C_{12}H_{18}Br_6$	1.6×10^{-2}		HSDB (2015)	V	
[3194-55-6]	5.7		Zhang et al. (2010)	Q	107, 108
	1.7×10^{2}		Zhang et al. (2010)	Q	107, 109
	5.7×10^{3}		Zhang et al. (2010)	Q	107, 110
	6.5		Zhang et al. (2010)	Q	107, 111
vinyl bromide	7.0×10^{-4}		HSDB (2015)	Q	38
C_2H_3Br	8.0×10^{-4}		Zhang et al. (2010)	Q	107, 108
[593-60-2]	7.7×10^{-4}		Zhang et al. (2010)	Q	107, 109
	4.8×10^{-4}		Zhang et al. (2010)	Q	107, 110
	8.2×10^{-4}		Zhang et al. (2010)	Q	107, 111
1,2-dibromoethene $C_2H_2Br_2$ [540-49-8]	1.2×10^{-2}		HSDB (2015)	V	
3-bromo-1-propene	9.0×10^{-4}		HSDB (2015)	Q	38
C_3H_5Br	8.6×10^{-3}		Hilal et al. (2008)	Q	
(allyl bromide)	1.7×10^{-3}		Yaws and Yang (1992)	?	92
[106-95-6]	1.7×10^{-3}		Abraham et al. (1990)	?	
3-bromo-1-propyne	8.8×10^{-3}	4000	Yates and Gan (1998)	M	
C_3H_3Br		3200	Kühne et al. (2005)	Q	
(propargyl bromide)		4200	Kühne et al. (2005)	?	
[106-96-7]			Fogg and Sangster (2003)	W	283
1-bromocyclohexene C_6H_9Br [2044-08-8]	2.0×10^{-3}		Hilal et al. (2008)	Q	
1-bromo-4-methylcyclohexene $C_7H_{11}Br$ [31053-84-6]	1.4×10^{-3}		Hilal et al. (2008)	Q	
bromobenzene	5.0×10^{-3}	4200	Fogg and Sangster (2003)	L	
C_6H_5Br	4.8×10^{-3}		Mackay and Shiu (1981)	L	
[108-86-1]	6.0×10^{-3}	4300	Hiatt (2013)	M	
	3.9×10^{-3}	2900	Lau et al. (2010)	M	89
	5.0×10^{-3}		de Wolf and Lieder (1998)	M	31
	4.0×10^{-3}		Shiu and Mackay (1997)	M	
	6.1×10^{-3}		Hovorka and Dohnal (1997)	M	9

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	4.9×10^{-3}	4200	Kondoh and Nakajima (1997)	M	
	5.3×10^{-3}	5300	Hansen et al. (1993)	M	105
	4.4×10^{-3}		Li and Carr (1993)	M	
	4.0×10^{-3}		Mackay and Shiu (1981)	M	
	4.7×10^{-3}		Shiu and Mackay (1997)	V	
	4.7×10^{-3}		Mackay et al. (1993)	V	
	5.0×10^{-3}		Hwang et al. (1992)	V	
	4.7×10^{-3}		Hine and Mookerjee (1975)	V	
	4.7×10^{-3}		HSDB (2015)	C	
	4.0×10^{-3}		Schüürmann (2000)	C	7
	5.2×10^{-3}		Hilal et al. (2008)	Q	
		4800	Kühne et al. (2005)	Q	
	7.3×10^{-3}		Nirmalakhandan and Speece (1988a)	Q	
		4300	Kühne et al. (2005)	?	
	4.7×10^{-3}		Yaws and Yang (1992)	?	92
	4.7×10^{-3}		Abraham et al. (1990)	?	
bromobenzene-d5 C_6D_5Br [4165-57-5]	6.5×10^{-3}	4200	Hiatt (2013)	M	
1,2-dibromobenzene $C_6H_4Br_2$ [583-53-9]	9.5×10^{-3}		Schüürmann (2000)	V	
1,3-dibromobenzene $C_6H_4Br_2$ [108-36-1]	5.0×10^{-3}		Mackay and Shiu (1981)	V	234
	9.0×10^{-3}		Hilal et al. (2008)	Q	
1,4-dibromobenzene $C_6H_4Br_2$ [106-37-6]	9.4×10^{-3}		Kuramochi et al. (2004)	M	
	1.1×10^{-2}		HSDB (2015)	V	
	4.3×10^{-3}		Schüürmann (2000)	V	
	4.8×10^{-3}		Mackay and Shiu (1981)	V	234
	2.0×10^{-2}		Hine and Mookerjee (1975)	V	
	1.1×10^{-2}		Kuramochi et al. (2004)	C	
	1.2×10^{-2}		Hilal et al. (2008)	Q	
		5600	Kühne et al. (2005)	Q	
	2.4×10^{-2}		Nirmalakhandan and Speece (1988a)	Q	
		6900	Kühne et al. (2005)	?	
1,2,4-tribromobenzene $C_6H_3Br_3$ [615-54-3]	3.1×10^{-2}		Kuramochi et al. (2004)	M	
	2.9×10^{-2}		Kuramochi et al. (2004)	C	
	1.8×10^{-2}		Hilal et al. (2008)	Q	
1,3,5-tribromobenzene $C_6H_3Br_3$ [626-39-1]	2.9×10^{-2}		Zhang et al. (2010)	Q	107, 108
	4.0×10^{-2}		Zhang et al. (2010)	Q	107, 109
	2.5×10^{-2}		Zhang et al. (2010)	Q	107, 110
	2.6×10^{-2}		Zhang et al. (2010)	Q	107, 111
1,2,4,5-tetrabromobenzene $C_6H_2Br_4$ [636-28-2]	2.7×10^{-3}		Kuramochi et al. (2004)	M	
	2.0×10^{-2}		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
hexabromobenzene	9.3×10^{-2}		Kuramochi et al. (2004)	M	
C_6Br_6	4.1×10^{-1}		Kuramochi et al. (2014)	V	
[87-82-1]	7.1		Tittlemier et al. (2002)	V	
	3.5×10^{-1}		HSDB (2015)	Q	38
	4.0×10^{-1}		Xiao et al. (2012)	Q	
	4.6×10^{-1}		Zhang et al. (2010)	Q	107, 108
	4.6×10^{-1}		Zhang et al. (2010)	Q	107, 109
	6.0×10^{-2}		Zhang et al. (2010)	Q	107, 110
	6.7×10^{-1}		Zhang et al. (2010)	Q	107, 111
	1.2×10^{-2}		Hilal et al. (2008)	Q	
(bromomethyl)-benzene	1.4×10^{-3}		HSDB (2015)	Q	38
C_7H_7Br	5.4×10^{-2}		Hilal et al. (2008)	Q	
(benzyl bromide)	2.2×10^{-2}		Abraham et al. (1990)	?	
[100-39-0]					
p-bromobenzyl bromide	3.6×10^{-2}		Zhang et al. (2010)	Q	107, 108
$C_7H_6Br_2$	2.7×10^{-1}		Zhang et al. (2010)	Q	107, 109
[589-15-1]	2.0×10^{-1}		Zhang et al. (2010)	Q	107, 110
	2.4×10^{-2}		Zhang et al. (2010)	Q	107, 111
1-bromo-2-methylbenzene	4.1×10^{-3}		HSDB (2015)	Q	38
$BrC_6H_4CH_3$	5.3×10^{-3}		Hilal et al. (2008)	Q	
(*o*-bromotoluene)					
[95-46-5]					
1-bromo-3-methylbenzene	1.5×10^{-3}		HSDB (2015)	V	
$BrC_6H_4CH_3$	5.2×10^{-3}		Hilal et al. (2008)	Q	
(*m*-bromotoluene)					
[591-17-3]					
1-bromo-4-methylbenzene	3.4×10^{-3}	4600	Brockbank et al. (2013)	M	
$BrC_6H_4CH_3$	4.2×10^{-3}		Hine and Mookerjee (1975)	V	
(*p*-bromotoluene)	5.6×10^{-3}		Hilal et al. (2008)	Q	
[106-38-7]	5.2×10^{-3}		Nirmalakhandan et al. (1997)	Q	
	5.2×10^{-3}		Nirmalakhandan and Speece (1988a)	Q	
	4.2×10^{-3}		Abraham et al. (1990)	?	
3,5-dibromotoluene	1.7×10^{-2}	4800	Hiatt (2013)	M	
$C_7H_6Br_2$					
[1611-92-3]					
pentabromotoluene	4.0×10^{-1}		Xiao et al. (2012)	Q	
$C_7H_3Br_5$					
[87-83-2]					
1-bromo-2-ethylbenzene	3.0×10^{-3}		Hine and Mookerjee (1975)	V	
C_8H_9Br	4.3×10^{-3}		Hilal et al. (2008)	Q	
[1973-22-4]	4.5×10^{-3}		Nirmalakhandan and Speece (1988a)	Q	
1-bromo-4-ethylbenzene	3.1×10^{-3}		Zhang et al. (2010)	Q	107, 108
C_8H_9Br	6.1×10^{-3}		Zhang et al. (2010)	Q	107, 109
[1585-07-5]	4.2×10^{-3}		Zhang et al. (2010)	Q	107, 110
	5.2×10^{-3}		Zhang et al. (2010)	Q	107, 111

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1-(bromomethyl)-2-methylbenzene C_8H_9Br (o-xylenyl bromide) [89-92-9]	1.3×10^{-2}		HSDB (2015)	Q	38
1-(bromomethyl)-3-methylbenzene C_8H_9Br (m-xylenyl bromide) [620-13-3]	1.3×10^{-2}		HSDB (2015)	Q	38
1-(bromomethyl)-4-methylbenzene C_8H_9Br (p-xylenyl bromide) [104-81-4]	1.3×10^{-2}		HSDB (2015)	Q	38
(2-bromoethyl)-benzene C_8H_9Br [103-63-9]	6.5×10^{-3}		HSDB (2015)	V	
2-bromostyrene C_8H_7Br [125904-11-2]	9.0×10^{-3} 9.5×10^{-3} 7.3×10^{-3} 1.5×10^{-2}		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
(2-bromoethenyl)benzene C_8H_7Br [103-64-0]	1.8×10^{-2}		HSDB (2015)	Q	38
2,3,4,5,6-pentabromoethylbenzene $C_8H_5Br_5$ [85-22-3]	1.2×10^{-1} 3.6×10^{-1} 3.3×10^{-2} 9.7×10^{-2}		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
1-bromo-2-(2-propyl)-benzene $BrC_6H_4C_3H_7$ (o-bromocumene) [7073-94-1]	1.7×10^{-3} 2.5×10^{-3} 3.1×10^{-3}		Hine and Mookerjee (1975) Hilal et al. (2008) Nirmalakhandan and Speece (1988a)	V Q Q	
1-bromonaphthalene $C_{10}H_7Br$ [90-11-9]	8.2×10^{-2}		Hilal et al. (2008)	Q	
decabromobiphenyl $C_{12}Br_{10}$ [13654-09-6]	2.3×10^{2} 2.4×10^{2} 3.0×10^{2} 2.3×10^{2} 5.0×10^{2}		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q Q	38 107, 108 107, 109 107, 110 107, 111
4-bromo-1,1'-biphenyl $C_{12}H_9Br$ [92-66-0]	6.0×10^{-2} 6.9×10^{-2} 1.7×10^{-1} 3.5×10^{-1}		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
octabromobiphenyl $C_{12}H_2Br_8$ [27858-07-7]	4.1×10^{3}		HSDB (2015)	V	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
hexabromobiphenyl $C_{12}H_4Br_6$ [36355-01-8]	2.3		HSDB (2015)	V	
2,2',4,4',5,5'-hexabromo-1,1'-biphenyl $C_{12}H_4Br_6$ [59080-40-9]	2.3		HSDB (2015)	V	
1,2-bis(pentabromophenyl) ethane $C_{14}H_4Br_{10}$ [84852-53-9]	1.5×10^2 8.8×10^2 8.6×10^1 1.7×10^2		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
1,3,6,8-tetrabromopyrene $C_{16}H_6Br_4$ [128-63-2]	4.7×10^1 4.4×10^1 6.2×10^{-1} 6.5×10^1		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
6-bromobenzo[a]pyrene $C_{20}H_{11}Br$ [21248-00-0]	1.2×10^2		HSDB (2015)	Q	38
bromomethanol CH_2BrOH	2.0×10^1		Krysztofiak et al. (2012)	Q	
dibromomethanol $CHBr_2OH$	1.7×10^2		Krysztofiak et al. (2012)	Q	
tribromomethanol CBr_3OH [75-80-9]	1.5×10^3		Krysztofiak et al. (2012)	Q	
formyl bromide $CHBrO$ [7726-11-6]	7.3×10^{-1}		Krysztofiak et al. (2012)	Q	
carbonyl bromide CBr_2O [593-95-3]	2.1×10^{-1}		Krysztofiak et al. (2012)	Q	
bromomethyl peroxide CH_2BrO_2H	2.5×10^1		Krysztofiak et al. (2012)	Q	
dibromomethyl peroxide $CHBr_2O_2H$	2.2×10^2		Krysztofiak et al. (2012)	Q	
tribromomethyl peroxide CBr_3O_2H	1.9×10^3		Krysztofiak et al. (2012)	Q	
bromoethanoic acid $CH_2BrCOOH$ (bromoacetic acid) [79-08-3]	1.5×10^3 1.5×10^3	9300 9300 8800 9300	Sander et al. (2011) Bowden et al. (1998a) Kühne et al. (2005) Kühne et al. (2005)	L M Q ?	
dibromoethanoic acid $CHBr_2COOH$ (dibromoacetic acid) [631-64-1]	2.3×10^3 2.2×10^3	8900 8900 9900 9000	Sander et al. (2011) Bowden et al. (1998a) Kühne et al. (2005) Kühne et al. (2005)	L M Q ?	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
tribromoethanoic acid CBr_3COOH (tribromoacetic acid) [75-96-7]	3.0×10^3 2.9×10^3	9000 9000	Sander et al. (2011) Bowden et al. (1998a)	L M	
2,3-dibromopropyl alcohol $C_3H_6Br_2O$ [96-13-9]	1.6×10^2 1.6×10^2 1.1×10^2 1.2×10^1 1.4×10^1		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q Q	38 107, 108 107, 109 107, 110 107, 111
bromoacetone C_3H_5BrO [598-31-2]	1.7		HSDB (2015)	Q	38
(bromomethyl)oxirane C_3H_5BrO (epibromohydrin) [3132-64-7]	4.1		HSDB (2015)	Q	38
2,3-dibromobutane-1,4-diol $C_4H_8Br_2O_2$ [90801-18-6]	3.2×10^3 1.0×10^5 1.5×10^6 4.7×10^4		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
bromoacetic acid, ethyl ester $C_4H_7BrO_2$ [105-36-2]	3.7×10^{-1}		HSDB (2015)	Q	38
brometone $C_4H_7Br_3O$ (1,1,1-tribromo-2-methyl-2-propanol) [76-08-4]	1.0×10^3		HSDB (2015)	Q	38
2,2-bis(bromomethyl)-1,3-propanediol $C_5H_{10}Br_2O_2$ [3296-90-0]	2.4×10^3		HSDB (2015)	Q	38
trisbromoneopentyl alcohol $C_5H_9Br_3O$ [36483-57-5]	7.7×10^2 7.5 1.1×10^1 1.0		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
2-bromophenol HOC_6H_4Br [95-56-7]	4.5×10^1 4.2		HSDB (2015) Hilal et al. (2008)	Q Q	38
3-bromophenol HOC_6H_4Br [591-20-8]	4.5×10^1 2.3×10^1		HSDB (2015) Hilal et al. (2008)	Q Q	38
4-bromophenol HOC_6H_4Br [106-41-2]	6.7×10^1 6.8×10^1 1.6×10^1 3.0×10^2 3.3×10^1 6.9×10^1	 8200	Abraham et al. (1994a) Parsons et al. (1971) Hilal et al. (2008) Nirmalakhandan et al. (1997) Nirmalakhandan and Speece (1988a) Abraham et al. (1990)	R T Q Q Q ?	 168

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,4-dibromophenol $C_6H_4Br_2O$ [615-58-7]	1.1×10^{2}		HSDB (2015)	Q	38
2,6-dibromophenol $C_6H_4Br_2O$ [608-33-3]	1.1×10^{2}		HSDB (2015)	Q	38
2,4,6-tribromophenol $C_6H_3Br_3O$ [118-79-6]	2.1×10^{2} 2.8×10^{2} 1.5×10^{-1} 6.2 7.7		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q Q	38 107, 108 107, 109 107, 110 107, 111
2,3,4,6-tetrabromophenol $C_6H_2Br_4O$ [14400-94-3]	7.0×10^{2}		HSDB (2015)	Q	38
pentabromophenol C_6HBr_5O [608-71-9]	1.8×10^{3} 1.8×10^{3} 1.2 2.2×10^{1} 1.3×10^{2}		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q Q	38 107, 108 107, 109 107, 110 107, 111
1-bromo-2-methoxybenzene C_7H_7BrO (2-bromoanisole) [578-57-4]	2.9×10^{-2}		Pfeifer et al. (2001)	M	273
1-bromo-3-methoxybenzene C_7H_7BrO (3-bromoanisole) [2398-37-0]	7.2×10^{-3}		Pfeifer et al. (2001)	M	273
1-bromo-4-methoxybenzene C_7H_7BrO (4-bromoanisole) [104-92-7]	1.1×10^{-2}		Pfeifer et al. (2001)	M	273
1,5-dibromo-2-methoxybenzene $C_7H_6Br_2O$ (2,4-dibromoanisole) [21702-84-1]	8.1×10^{-2}		Pfeifer et al. (2001)	M	273
1,3-dibromo-2-methoxybenzene $C_7H_6Br_2O$ (2,6-dibromoanisole) [38603-09-7]	3.7×10^{-2}		Pfeifer et al. (2001)	M	273
1,3,4-tribromo-2-methoxybenzene $C_7H_5Br_3O$ (2,3,6-tribromoanisole) [95970-19-7]	5.2×10^{-3}	2800	Diaz et al. (2005)	M	284

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1,3,5-tribromo-2-methoxybenzene	1.9×10^{-2}	6400	Diaz et al. (2005)	M	
$C_7H_5Br_3O$	1.3×10^{-2}		Pfeifer et al. (2001)	M	273
(2,4,6-tribromoanisole)	3.1×10^{-2}		HSDB (2015)	Q	38
[607-99-8]					
pentabromomethoxybenzene	1.0		Pfeifer et al. (2001)	M	273
$C_7H_3Br_5O$					
(pentabromoanisole)					
[1825-26-9]					
1,3,5-tribromo-2-methoxy-4-methylbenzene	4.4×10^{-1}		Zhang et al. (2010)	Q	107, 108
$C_8H_7Br_3O$	2.0×10^{-1}		Zhang et al. (2010)	Q	107, 109
[41424-36-6]	3.2×10^{-1}		Zhang et al. (2010)	Q	107, 110
	1.9×10^{-1}		Zhang et al. (2010)	Q	107, 111
4,5,6,7-tetrabromo-1,3-isobenzofurandione	6.1×10^{1}		Zhang et al. (2010)	Q	107, 108
$C_8Br_4O_3$	4.4×10^{5}		Zhang et al. (2010)	Q	107, 109
[632-79-1]	2.4×10^{2}		Zhang et al. (2010)	Q	107, 110
	8.0×10^{2}		Zhang et al. (2010)	Q	107, 111
allyl 2,4,6-tribromophenyl ether	3.8×10^{-1}		Zhang et al. (2010)	Q	107, 108
$C_9H_7Br_3O$	1.3×10^{-1}		Zhang et al. (2010)	Q	107, 109
[3278-89-5]	2.0×10^{-1}		Zhang et al. (2010)	Q	107, 110
	6.2×10^{-1}		Zhang et al. (2010)	Q	107, 111
2,4-dibromo-6-methylphenyl glycidyl ether	8.2×10^{1}		Zhang et al. (2010)	Q	107, 108
$C_{10}H_{10}Br_2O_2$	7.0		Zhang et al. (2010)	Q	107, 109
[75150-13-9]	5.2×10^{1}		Zhang et al. (2010)	Q	107, 110
	5.4		Zhang et al. (2010)	Q	107, 111
2-(2,4,6-tribromophenoxy)ethyl acrylate	2.9×10^{2}		Zhang et al. (2010)	Q	107, 108
$C_{11}H_9Br_3O_3$	1.6×10^{1}		Zhang et al. (2010)	Q	107, 109
[7347-19-5]	4.3×10^{3}		Zhang et al. (2010)	Q	107, 110
	1.3×10^{2}		Zhang et al. (2010)	Q	107, 111
1,2,3',4,4',5'-hexabromodiphenyl ether	2.1×10^{1}		HSDB (2015)	Q	38
$C_{12}H_4Br_6O$	2.1×10^{1}		Zhang et al. (2010)	Q	107, 108
[36483-60-0]	7.3×10^{1}		Zhang et al. (2010)	Q	107, 109
	2.7×10^{2}		Zhang et al. (2010)	Q	107, 110
	2.5×10^{1}		Zhang et al. (2010)	Q	107, 111
heptabromodiphenyl oxide	5.2×10^{1}		HSDB (2015)	Q	38
$C_{12}H_3Br_7O$	5.2×10^{1}		Zhang et al. (2010)	Q	107, 108
[68928-80-3]	2.6×10^{1}		Zhang et al. (2010)	Q	107, 109
	5.6×10^{2}		Zhang et al. (2010)	Q	107, 110
	4.8×10^{1}		Zhang et al. (2010)	Q	107, 111

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,2',3,4,4',5,5',6-octabromodiphenyl ether	3.7×10^{1}		HSDB (2015)	V	
$C_{12}H_2Br_8O$	1.3×10^{2}		Zhang et al. (2010)	Q	107, 108
[32536-52-0]	7.3×10^{1}		Zhang et al. (2010)	Q	107, 109
	6.5×10^{2}		Zhang et al. (2010)	Q	107, 110
	8.0×10^{1}		Zhang et al. (2010)	Q	107, 111
nonabromodiphenyl ether	3.3×10^{2}		Zhang et al. (2010)	Q	107, 108
$C_{12}HBr_9O$	1.5×10^{2}		Zhang et al. (2010)	Q	107, 109
[63936-56-1]	1.1×10^{3}		Zhang et al. (2010)	Q	107, 110
	2.1×10^{2}		Zhang et al. (2010)	Q	107, 111
1,2,3-tribromo-4-(3-bromophenoxy)benzene	1.2		HSDB (2015)	Q	38
$C_{12}H_6Br_4O$	3.4		Zhang et al. (2010)	Q	107, 108
[40088-47-9]	1.0		Zhang et al. (2010)	Q	107, 109
	1.6×10^{1}		Zhang et al. (2010)	Q	107, 110
	1.1×10^{1}		Zhang et al. (2010)	Q	107, 111
4,4'-methylenebis(2,6-dibromophenol)	7.5×10^{7}		Zhang et al. (2010)	Q	107, 108
$C_{13}H_8Br_4O_2$	9.0×10^{1}		Zhang et al. (2010)	Q	107, 109
[21825-03-6]	1.3×10^{4}		Zhang et al. (2010)	Q	107, 110
	3.4×10^{3}		Zhang et al. (2010)	Q	107, 111
1,1'-[1,2-ethanediylbis(oxy)]bis pentabromobenzene	5.3×10^{4}		Zhang et al. (2010)	Q	107, 108
$C_{14}H_4Br_{10}O_2$	8.6×10^{2}		Zhang et al. (2010)	Q	107, 109
[61262-53-1]	2.2×10^{2}		Zhang et al. (2010)	Q	107, 110
	1.1×10^{3}		Zhang et al. (2010)	Q	107, 111
4,4'-dibromobenzil	8.0×10^{3}		Zhang et al. (2010)	Q	107, 108
$C_{14}H_8Br_2O_2$	2.6×10^{3}		Zhang et al. (2010)	Q	107, 109
[35578-47-3]	1.9×10^{2}		Zhang et al. (2010)	Q	107, 110
	1.3×10^{5}		Zhang et al. (2010)	Q	107, 111
1,2-bis(2,4,6-tribromophenoxy)ethane	1.8×10^{1}		Kuramochi et al. (2014)	V	
$C_{14}H_8Br_6O_2$	2.3×10^{1}		HSDB (2015)	Q	38
(BTBPE)	6.4×10^{1}		Xiao et al. (2012)	Q	
[37853-59-1]	1.3×10^{3}		Zhang et al. (2010)	Q	107, 108
	7.3×10^{1}		Zhang et al. (2010)	Q	107, 109
	1.1×10^{3}		Zhang et al. (2010)	Q	107, 110
	1.0×10^{3}		Zhang et al. (2010)	Q	107, 111
2-ethylhexyl-2,3,4,5-tetrabromobenzoate $C_{15}H_{18}Br_4O_2$ (EHTeBB) [183658-27-7]	1.6		Xiao et al. (2012)	Q	
tribromobisphenol A $C_{15}H_{13}Br_3O_2$ [6386-73-8]	1.1×10^{2}		HSDB (2015)	Q	182

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
4,4'-(1-methylethylidene)bis(2,6-dibromophenol)	2.4×10^{2}		HSDB (2015)	V	
$C_{15}H_{12}Br_4O_2$	4.2×10^{7}		Zhang et al. (2010)	Q	107, 108
[79-94-7]	3.9×10^{1}		Zhang et al. (2010)	Q	107, 109
	8.0×10^{4}		Zhang et al. (2010)	Q	107, 110
	1.6×10^{3}		Zhang et al. (2010)	Q	107, 111
4-[2-[2,6-bis(bromanyl)-4-oxidanyl-phenyl]propan-2-yl]-3,5-bis(bromanyl)phenol	4.2×10^{7}		Zhang et al. (2010)	Q	107, 108
$C_{15}H_{12}Br_4O_2$	2.0×10^{7}		Zhang et al. (2010)	Q	107, 109
[94334-64-2]	2.2×10^{7}		Zhang et al. (2010)	Q	107, 110
	1.7×10^{8}		Zhang et al. (2010)	Q	107, 111
2-(2-hydroxyethoxy)ethyl 2-hydroxypropyl 3,4,5,6-tetrabromophthalate	3.6×10^{10}		Zhang et al. (2010)	Q	107, 108
$C_{15}H_{16}Br_4O_7$	1.5×10^{11}		Zhang et al. (2010)	Q	107, 109
[20566-35-2]	3.1×10^{13}		Zhang et al. (2010)	Q	107, 110
	5.7×10^{10}		Zhang et al. (2010)	Q	107, 111
bromopropylate	2.1×10^{1}		HSDB (2015)	V	
$C_{17}H_{16}Br_2O_3$					
[18181-80-1]					
1,2,4,5-tetrabromo-3,6-bis(pentabromophenoxy)benzene	1.5×10^{6}		Zhang et al. (2010)	Q	107, 108
$C_{18}O_2Br_{14}$	4.1×10^{5}		Zhang et al. (2010)	Q	107, 109
[58965-66-5]	2.1×10^{6}		Zhang et al. (2010)	Q	107, 110
	6.7×10^{5}		Zhang et al. (2010)	Q	107, 111
2,2-bis(3,5-dibromo-4-(2-hydroxyethoxy)phenyl)propane	5.6×10^{7}		Zhang et al. (2010)	Q	107, 108
$C_{19}H_{20}Br_4O_4$	1.5×10^{8}		Zhang et al. (2010)	Q	107, 109
[4162-45-2]	6.1×10^{9}		Zhang et al. (2010)	Q	107, 110
	2.5×10^{8}		Zhang et al. (2010)	Q	107, 111
solvent red 43	4.4×10^{12}		Zhang et al. (2010)	Q	107, 108
$C_{20}H_8Br_4O_5$	1.5×10^{8}		Zhang et al. (2010)	Q	107, 109
[15086-94-9]	2.7×10^{10}		Zhang et al. (2010)	Q	107, 110
	2.9×10^{8}		Zhang et al. (2010)	Q	107, 111
2,2-bis[4-(2,3-dibromopropoxy)-3,5-dibromophenyl]-propane	2.4×10^{5}		Zhang et al. (2010)	Q	107, 108
$C_{21}H_{20}Br_8O_2$	4.0×10^{4}		Zhang et al. (2010)	Q	107, 109
[21850-44-2]	1.7×10^{5}		Zhang et al. (2010)	Q	107, 110
	8.6×10^{4}		Zhang et al. (2010)	Q	107, 111
2,2-bis(4-allyloxy-3,5-dibromophenyl)propane	7.7×10^{1}		Zhang et al. (2010)	Q	107, 108
$C_{21}H_{20}Br_4O_2$	1.3×10^{1}		Zhang et al. (2010)	Q	107, 109
[25327-89-3]	1.7×10^{2}		Zhang et al. (2010)	Q	107, 110
	1.9×10^{2}		Zhang et al. (2010)	Q	107, 111

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
ac1mj2tg	1.3×10^{8}		Zhang et al. (2010)	Q	107, 108
$C_{21}H_{24}Br_4O_4$	4.7×10^{6}		Zhang et al. (2010)	Q	107, 109
[33294-14-3]	9.2×10^{6}		Zhang et al. (2010)	Q	107, 110
	1.2×10^{6}		Zhang et al. (2010)	Q	107, 111
tetrabromophenolphthalein, ethyl ester	1.0×10^{11}		Zhang et al. (2010)	Q	107, 108
$C_{22}H_{14}Br_4O_4$	1.2×10^{7}		Zhang et al. (2010)	Q	107, 109
[1176-74-5]	3.1×10^{10}		Zhang et al. (2010)	Q	107, 110
	3.5×10^{8}		Zhang et al. (2010)	Q	107, 111
4,10-dibromodibenzo[def, mno] chrysene-6,12-dione	5.8×10^{6}		Zhang et al. (2010)	Q	107, 108
$C_{22}H_8Br_2O_2$	2.7×10^{5}		Zhang et al. (2010)	Q	107, 109
[4378-61-4]	4.1×10^{6}		Zhang et al. (2010)	Q	107, 110
	1.1×10^{8}		Zhang et al. (2010)	Q	107, 111
bis(2-ethylhexyl)-3,4,5,6- tetrabromophthalate $C_{24}H_{34}Br_4O_4$ (TBPH) [26040-51-7]	4.0×10^{2}		Xiao et al. (2012)	Q	
bromadiolone $C_{30}H_{23}BrO_4$ [28772-56-7]	1.1×10^{6}		HSDB (2015)	V	
brodifacoum $C_{31}H_{23}BrO_3$ [56073-10-0]	4.6×10^{2}		Rubbiani (2013)	?	
Polybrominated diphenyl ethers (PBDEs)					
4-bromodiphenyl ether	5.0×10^{-2}		Lau et al. (2006)	M	262
$C_{12}H_9BrO$	4.3×10^{-2}		Lau et al. (2006)	M	263
(PBDE-3)	5.8×10^{-2}	5500	Charles and Destaillats (2005)	M	
[101-55-3]	9.6×10^{-2}		Mackay et al. (1993)	V	
	8.2×10^{-2}		HSDB (2015)	Q	38
4,4'-dibromodiphenyl ether	8.3×10^{-2}		Lau et al. (2006)	M	262
$C_{12}H_8Br_2O$	7.1×10^{-2}		Lau et al. (2006)	M	263
(PBDE-15)	7.3×10^{-2}	4500	Charles and Destaillats (2005)	M	
[2050-47-7]	4.8×10^{-2}		Tittlemier et al. (2002)	V	
	2.4×10^{-1}		Wania and Dugani (2003)	R	
	9.0×10^{-2}		Hilal et al. (2008)	Q	
2,4,4'-tribromodiphenyl ether	1.1×10^{-1}		Lau et al. (2006)	M	262
$C_{12}H_7Br_3O$	7.7×10^{-2}		Lau et al. (2006)	M	263
(PBDE-28)	1.8×10^{-1}	7400	Cetin and Odabasi (2005)	M	
[41318-75-6]	1.2×10^{-1}	12000	Charles and Destaillats (2005)	M	
	2.0×10^{-1}		Tittlemier et al. (2002)	V	
	5.2×10^{-1}		Wania and Dugani (2003)	R	
	1.4×10^{-1}		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,2',4,4'-tetrabromodiphenyl ether	1.6×10^{-1}		Lau et al. (2006)	M	262
$C_{12}H_6Br_4O$	1.7×10^{-1}		Lau et al. (2006)	M	263
(PBDE-47)	8.7×10^{-1}	7300	Cetin and Odabasi (2005)	M	
[5436-43-1]	1.7×10^{-1}	620	Charles and Destaillats (2005)	M	
	9.3×10^{-1}		Kuramochi et al. (2014)	V	
	6.7×10^{-1}		Tittlemier et al. (2002)	V	
	9.0×10^{-1}		Wania and Dugani (2003)	R	
	2.2×10^{-1}		Hilal et al. (2008)	Q	
2,3',4,4'-tetrabromodiphenyl ether	2.0		Tittlemier et al. (2002)	V	
$C_{12}H_6Br_4O$					
(PBDE-66)					
[189084-61-5]					
3,3',4,4'-tetrabromodiphenyl ether	8.3×10^{-1}		Tittlemier et al. (2002)	V	
$C_{12}H_6Br_4O$					
(PBDE-77)					
[93703-48-1]					
2,2',3,4,4'-pentabromodiphenyl ether	9.1		Tittlemier et al. (2002)	V	
$C_{12}H_5Br_5O$					
(PBDE-85)					
[182346-21-0]					
2,2',4,4',5-pentabromodiphenyl ether	6.2×10^{-1}		Lau et al. (2006)	M	262
$C_{12}H_5Br_5O$	3.3×10^{-1}		Lau et al. (2006)	M	263
(PBDE-99)	1.5	8800	Cetin and Odabasi (2005)	M	
[60348-60-9]	2.7×10^{-1}	-6700	Charles and Destaillats (2005)	M	
	2.1		Kuramochi et al. (2014)	V	
	4.3		Tittlemier et al. (2002)	V	
	1.9		Wania and Dugani (2003)	R	
	8.4		Zhang et al. (2010)	Q	107, 108
	3.7		Zhang et al. (2010)	Q	107, 109
	1.2×10^{2}		Zhang et al. (2010)	Q	107, 110
	2.4×10^{1}		Zhang et al. (2010)	Q	107, 111
	4.3×10^{-1}		Hilal et al. (2008)	Q	
2,2',4,4',6-pentabromodiphenyl ether	3.3×10^{-1}		Lau et al. (2006)	M	262
$C_{12}H_5Br_5O$	3.2×10^{-1}		Lau et al. (2006)	M	263
(PBDE-100)	3.8	6800	Cetin and Odabasi (2005)	M	
[189084-64-8]	1.9×10^{-1}	12	Charles and Destaillats (2005)	M	
	1.4×10^{1}		Tittlemier et al. (2002)	V	
	2.6		Wania and Dugani (2003)	R	
	3.7×10^{-1}		Hilal et al. (2008)	Q	
2,3',4,4',5-pentabromodiphenyl ether	6.2×10^{-1}		Lau et al. (2006)	M	262
$C_{12}H_5Br_5O$	7.7×10^{-1}		Lau et al. (2006)	M	263
(PBDE-118)	8.8×10^{-1}	4000	Charles and Destaillats (2005)	M	
[446254-77-9]					
2,2',4,4',5,5'-hexabromodiphenyl ether	3.5	7800	Cetin and Odabasi (2005)	M	
$C_{12}H_4Br_6O$	6.1		Kuramochi et al. (2014)	V	
(PBDE-153)	1.5×10^{1}		Tittlemier et al. (2002)	V	
[68631-49-2]	2.9		Wania and Dugani (2003)	R	
	8.4×10^{-1}		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,2',4,4',5,6'-hexabromodiphenyl ether	7.3	6800	Cetin and Odabasi (2005)	M	
$C_{12}H_4Br_6O$	4.2		Tittlemier et al. (2002)	V	
(PBDE-154)	7.2×10^{-1}		Hilal et al. (2008)	Q	
[207122-15-4]					
2,2',3,4,4',5',6-heptabromodiphenyl ether	1.4×10^{2}		Tittlemier et al. (2002)	V	
$C_{12}H_3Br_7O$					
(PBDE-183)					
[207122-16-5]					
2,2',3,3',4,4',5,5',6,6'-decabromodiphenyl ether	1.8×10^{1}	7900	Cetin and Odabasi (2005)	M	
$C_{12}Br10O$	8.2×10^{2}		HSDB (2015)	Q	38
(PBDE-209)	8.2×10^{2}		Zhang et al. (2010)	Q	107, 108
[1163-19-5]	4.1×10^{2}		Zhang et al. (2010)	Q	107, 109
	1.3×10^{3}		Zhang et al. (2010)	Q	107, 110
	6.7×10^{2}		Zhang et al. (2010)	Q	107, 111
dibromoacetonitrile	2.4×10^{1}		HSDB (2015)	Q	38
C_2HBr_2N					
[3252-43-5]					
bromoacetonitrile	2.8		HSDB (2015)	Q	182
C_2H_2BrN					
[590-17-0]					
1,2-dibromo-2,4-dicyanobutane	1.2×10^{3}		HSDB (2015)	V	
$C_6H_6Br_2N_2$					
[35691-65-7]					
4-bromobenzenamine	1.1×10^{1}		HSDB (2015)	Q	182
C_6H_6BrN					
[106-40-1]					
2,4,6-tribromobenzenamine	8.2×10^{1}		Zhang et al. (2010)	Q	107, 108
$C_6H_4Br_3N$	2.6		Zhang et al. (2010)	Q	107, 109
[147-82-0]	6.0×10^{-1}		Zhang et al. (2010)	Q	107, 110
	1.2×10^{2}		Zhang et al. (2010)	Q	107, 111
N,N'-dimethyl-3,3',4,4',5,5'-hexabromo-2,2'-bipyrrole	5.0×10^{2}		Tittlemier et al. (2004)	V	
$C_{10}H_6Br_6N_2$	5.1×10^{1}		Hilal et al. (2008)	Q	
(DBP-Br6)					
[253798-63-9]					
1,1'-ethylene 2,2'-dipyridylium dibromide	7.0×10^{7}		HSDB (2015)	Q	38
$C_{12}H_{12}N_2Br$					
(diquat dibromide)					
[85-00-7]					
tralomethrin	2.5×10^{4}		HSDB (2015)	V	
$C_{22}H_{19}NO_3Br_4$					
[66841-25-6]					

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
bromomethyl peroxynitrate $CH_2BrO_2NO_2$	3.5×10^{-1}		Krysztofiak et al. (2012)	Q	
dibromomethyl peroxynitrate $CHBr_2O_2NO_2$	3.0		Krysztofiak et al. (2012)	Q	
tribromomethyl peroxynitrate $CBr_3O_2NO_2$	4.0		Krysztofiak et al. (2012)	Q	
2,2-dibromo-2-cyanoacetamide $C_3H_2Br_2N_2O$ (2,2-dibromo-3-nitrilopropionamide) [10222-01-2]	5.2×10^{2}		HSDB (2015)	V	
bronopol $C_3H_6BrNO_4$ [52-51-7]	7.6×10^{5}		HSDB (2015)	V	
2,6-dibromo-4-nitroaniline $C_6H_4Br_2N_2O_2$ [827-94-1]	8.2×10^{3} 1.7×10^{2} 1.9×10^{3} 5.7×10^{3}		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
2-bromo-4,6-dinitroaniline $C_6H_4BrN_3O_4$ [1817-73-8]	3.9×10^{4} 2.7×10^{2} 1.8×10^{3} 5.7×10^{4}		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
3-bromonitrobenzene $C_6H_4BrNO_2$ (m-bromonitrobenzene) [585-79-5]	5.4		Schüürmann (2000)	V	
3,5-dibromo-4-hydroxy-benzonitrile $C_7H_3Br_2NO$ [1689-84-5]	7.4×10^{2}		Mackay et al. (2006d)	V	
2,6-dibromo-3-methyl-4-nitroanisole $C_8H_7Br_2NO_3$ [62265-99-0]	4.5×10^{1} 3.5×10^{1} 4.7 9.7		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
bromacil $C_9H_{13}BrN_2O_2$ [314-40-9]	7.6×10^{4} 7.8×10^{4} 5.3×10^{2}		HSDB (2015) Mackay et al. (2006d) Suntio et al. (1988)	V V V	 9
N'-(4-bromophenyl)-N-methoxy-N-methylurea $C_9H_{11}BrN_2O$ (metobromuron) [3060-89-7]	3.2×10^{3} 3.2×10^{3}		HSDB (2015) Mackay et al. (2006d)	V V	
bromuron $C_9H_{11}BrN_2O$ [3408-97-7]	2.0×10^{4}		MacBean (2012a)	?	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
tris(2,3-dibromopropyl)isocyanurate	8.2×10^{12}		Zhang et al. (2010)	Q	107, 108
$C_{12}H_{15}Br_6N_3O_3$	6.5×10^{7}		Zhang et al. (2010)	Q	107, 109
[52434-90-9]	2.7×10^{8}		Zhang et al. (2010)	Q	107, 110
	1.2×10^{10}		Zhang et al. (2010)	Q	107, 111
bromofenoxim	1.3×10^{5}		MacBean (2012a)	?	9
$C_{13}H_7Br_2N_3O_6$					
[13181-17-4]					
tribromsalan	9.7×10^{5}		Zhang et al. (2010)	Q	107, 108
$C_{13}H_8Br_3NO_2$	1.2×10^{6}		Zhang et al. (2010)	Q	107, 109
[87-10-5]	1.6×10^{6}		Zhang et al. (2010)	Q	107, 110
	1.2×10^{6}		Zhang et al. (2010)	Q	107, 111
1-amino-2,4-dibromo-9,10-anthracenedione	5.5×10^{7}		HSDB (2015)	Q	38
$C_{14}H_7Br_2NO_2$					
(1-amino-2,4-dibromoanthraquinone)					
[81-49-2]					
2,6-dibromo-4-cyanophenyl octanoate	3.1×10^{-1}		HSDB (2015)	V	
$C_{15}H_{17}BrNO_2$					
[1689-99-2]					
(2*E*)-N,N'-bis(2,4,6-tribromophenyl)-2-butenediamide	9.0×10^{9}		Zhang et al. (2010)	Q	107, 108
$C_{16}H_8Br_6N_2O_2$	5.1×10^{8}		Zhang et al. (2010)	Q	107, 109
[92484-07-6]	6.2×10^{9}		Zhang et al. (2010)	Q	107, 110
	7.2×10^{13}		Zhang et al. (2010)	Q	107, 111
saytex bt 93	2.7×10^{15}		HSDB (2015)	Q	38
$C_{18}H_4Br_8N_2O_4$	2.7×10^{15}		Zhang et al. (2010)	Q	107, 108
[32588-76-4]	2.3×10^{11}		Zhang et al. (2010)	Q	107, 109
	3.5×10^{9}		Zhang et al. (2010)	Q	107, 110
	2.3×10^{13}		Zhang et al. (2010)	Q	107, 111
saytex bn 451	2.5×10^{15}		Zhang et al. (2010)	Q	107, 108
$C_{20}H_{20}Br_4N_2O_4$	1.4×10^{11}		Zhang et al. (2010)	Q	107, 109
[52907-07-0]	5.7×10^{11}		Zhang et al. (2010)	Q	107, 110
	1.6×10^{15}		Zhang et al. (2010)	Q	107, 111
deltamethrin	2.0		HSDB (2015)	V	
$C_{22}H_{19}Br_2NO_3$	4.0×10^{-1}		Mackay et al. (2006d)	V	
[52918-63-5]	2.0		Siebers and Mattusch (1996)	V	9
2,2'-(methylenedi-4,1-phenylene)bis(4,5,6,7-tetrabromo-1H-isoindole-1,3(2H)-dione	5.3×10^{14}		Zhang et al. (2010)	Q	107, 108
$C_{29}H_{10}N_2O_4Br_8$	1.7×10^{14}		Zhang et al. (2010)	Q	107, 109
[32588-74-2]	9.5×10^{9}		Zhang et al. (2010)	Q	107, 110
	4.7×10^{15}		Zhang et al. (2010)	Q	107, 111

Bromine, chlorine and fluorine (C, H, N, O, F, Cl, Br)

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
bromotrifluoromethane	2.0×10^{-5}		Hine and Mookerjee (1975)	V	
CF_3Br	2.0×10^{-5}		Irmann (1965)	C	
[75-63-8]	3.2×10^{-5}		Hilal et al. (2008)	Q	
	2.7×10^{-5}		Nirmalakhandan and Speece (1988a)	Q	
	5.6×10^{-6}		Irmann (1965)	Q	
	2.1×10^{-5}		Yaws (1999)	?	
dibromodifluoromethane	3.3×10^{-4}		HSDB (2015)	Q	38
CBr_2F_2					
[75-61-6]					
1-bromo-1,2,2,2-tetrafluoroethane	1.2×10^{-4}		Edelist et al. (1964)	M	19
C_2HBrF_4	2.1×10^{-4}		Hilal et al. (2008)	Q	
(teflurane)	1.7×10^{-4}		Abraham et al. (1990)	?	
[124-72-1]					
1,2-dibromotetrafluoroethane	2.7×10^{-7}		HSDB (2015)	V	
$C_2Br_2F_4$					
[124-73-2]					
4-bromofluorobenzene	5.3×10^{-3}	4400	Hiatt (2013)	M	
C_6H_4BrF					
[460-00-4]					
bromopentafluorobenzene	2.1×10^{-3}		Zhang et al. (2010)	Q	107, 108
C_6BrF_5	1.6×10^{-4}		Zhang et al. (2010)	Q	107, 109
[344-04-7]	1.4×10^{-4}		Zhang et al. (2010)	Q	107, 110
	6.7×10^{-4}		Zhang et al. (2010)	Q	107, 111
bromethalin	2.5×10^{3}		HSDB (2015)	Q	38
$C_{14}H_7Br_3F_3N_3O_4$					
[63333-35-7]					
bromochloromethane	6.6×10^{-3}	4700	Hiatt (2013)	M	
CH_2BrCl	7.8×10^{-3}	4600	Kondoh and Nakajima (1997)	M	
[74-97-5]	6.8×10^{-3}		HSDB (2015)	V	
	5.8×10^{-3}		Mackay et al. (2006b)	V	
	5.8×10^{-3}		Mackay et al. (1993)	V	
	6.2×10^{-3}		Yaws (1999)	?	
			Fogg and Sangster (2003)	W	285
bromodichloromethane	4.0×10^{-3}	5200	Sander et al. (2011)	L	
$CHCl_2Br$	4.0×10^{-3}	5200	Sander et al. (2006)	L	
[75-27-4]	4.8×10^{-3}	3700	Fogg and Sangster (2003)	L	
	4.0×10^{-3}	5200	Staudinger and Roberts (2001)	L	
	4.0×10^{-3}	5200	Staudinger and Roberts (1996)	L	
	5.2×10^{-3}	4700	Hiatt (2013)	M	
	2.9×10^{-3}		Zhang et al. (2002)	M	19
	5.4×10^{-3}	4400	Kondoh and Nakajima (1997)	M	
	3.9×10^{-3}	4900	Moore et al. (1995)	M	127
	4.8×10^{-3}	4200	Tse et al. (1992)	M	
	4.7×10^{-3}	5200	Nicholson et al. (1984)	M	
	3.5×10^{-3}	5200	Ervin et al. (1980)	M	
	4.7×10^{-3}		Warner et al. (1980)	M	
	4.1×10^{-3}		Mackay et al. (2006b)	V	
	4.1×10^{-3}		Mackay et al. (1993)	V	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	4.6×10^{-3}	1200	Goldstein (1982)	X	116
	7.7×10^{-3}		Hilal et al. (2008)	C	
	4.3×10^{-3}		Nicholson et al. (1984)	C	
	4.7×10^{-3}		Nicholson et al. (1984)	C	9
	4.7×10^{-3}		Shen (1982)	C	
	3.9×10^{-3}		Hilal et al. (2008)	Q	
		4100	Kühne et al. (2005)	Q	
	6.2×10^{-3}		Mackay et al. (2006b)	?	
		3800	Kühne et al. (2005)	?	
	6.2×10^{-3}		Mackay et al. (1993)	?	
bromotrichloromethane $CBrCl_3$ [75-62-7]	2.7×10^{-2}		HSDB (2015)	Q	38
dibromochloromethane $CHClBr_2$ [124-48-1]	8.6×10^{-3}	5500	Sander et al. (2011)	L	
	8.6×10^{-3}	5500	Sander et al. (2006)	L	
	8.7×10^{-3}	4400	Fogg and Sangster (2003)	L	
	8.6×10^{-3}	5500	Staudinger and Roberts (2001)	L	
	8.5×10^{-3}	5500	Staudinger and Roberts (1996)	L	
	1.1×10^{-2}	5300	Hiatt (2013)	M	
	4.6×10^{-3}		Zhang et al. (2002)	M	19
	9.8×10^{-3}	5100	Kondoh and Nakajima (1997)	M	
	7.2×10^{-3}	5200	Moore et al. (1995)	M	127
	9.3×10^{-3}	4600	Tse et al. (1992)	M	
	8.5×10^{-3}	6400	Ashworth et al. (1988)	M	103
	8.6×10^{-3}	5200	Nicholson et al. (1984)	M	
	8.5×10^{-3}	5000	Ervin et al. (1980)	M	
	1.3×10^{-2}		Warner et al. (1980)	M	
	1.2×10^{-2}		Mackay et al. (2006b)	V	
	1.2×10^{-2}		Goldstein (1982)	X	181
	1.2×10^{-2}	2500	Goldstein (1982)	X	116
	1.2×10^{-2}		Nicholson et al. (1984)	C	
	1.1×10^{-2}		Nicholson et al. (1984)	C	9
	1.3×10^{-2}		Shen (1982)	C	
	5.4×10^{-3}		Hilal et al. (2008)	Q	
		4800	Kühne et al. (2005)	Q	
		4600	Kühne et al. (2005)	?	
	1.2×10^{-2}		Mackay et al. (1993)	?	
1-chloro-2-bromoethane C_2H_4BrCl [107-04-0]	1.1×10^{-2}		Hine and Mookerjee (1975)	V	
	1.1×10^{-2}		Sieg et al. (2008)	C	
	1.8×10^{-2}		Hilal et al. (2008)	Q	
	3.7×10^{-3}		Nirmalakhandan and Speece (1988a)	Q	
1,2-dibromo-1,1-dichloroethane $C_2H_2Br_2Cl_2$ [75-81-0]	6.2×10^{-2}		HSDB (2015)	Q	38
1-bromo-3-chloropropane C_3H_6BrCl [109-70-6]	3.9×10^{-2}		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1,2-dibromo-3-chloropropane	9.7×10^{-2}	7100	Hiatt (2013)	M	
$C_3H_5Br_2Cl$	5.0×10^{-1}	10000	Kondoh and Nakajima (1997)	M	
[96-12-8]	6.6×10^{-2}		HSDB (2015)	V	
	6.7×10^{-2}		Meylan and Howard (1991)	V	
	9.0×10^{-2}		Hilal et al. (2008)	Q	
	1.6×10^{-2}		Meylan and Howard (1991)	Q	
	4.0×10^{-2}		MacBean (2012a)	?	
1,2,3,4,5-pentabromo-6-chlorocyclohexane	1.0×10^{1}		Zhang et al. (2010)	Q	107, 108
$C_6H_6Br_5Cl$	1.1×10^{2}		Zhang et al. (2010)	Q	107, 109
[87-84-3]	1.8×10^{3}		Zhang et al. (2010)	Q	107, 110
	1.2×10^{1}		Zhang et al. (2010)	Q	107, 111
1,2,3,4-tetrabromo-5,6-dichlorocyclohexane	3.4		Zhang et al. (2010)	Q	107, 108
$C_6H_6Br_4Cl_2$	6.2×10^{1}		Zhang et al. (2010)	Q	107, 109
	9.9×10^{2}		Zhang et al. (2010)	Q	107, 110
	6.2		Zhang et al. (2010)	Q	107, 111
1,2,3-tribromo-4,5,6-trichlorocyclohexane	1.1		Zhang et al. (2010)	Q	107, 108
$C_6H_6Br_3Cl_3$	3.6×10^{1}		Zhang et al. (2010)	Q	107, 109
	4.1×10^{2}		Zhang et al. (2010)	Q	107, 110
	3.0		Zhang et al. (2010)	Q	107, 111
1-bromo-4-chlorobenzene	6.8×10^{-3}		Mackay and Shiu (1981)	V	
C_6H_4BrCl	9.0×10^{-3}		Hilal et al. (2008)	Q	
[106-39-8]					
1,2,4-tribromo-3,5,6-trichlorobenzene	4.1×10^{-2}		HSDB (2015)	Q	38
$C_6Br_3Cl_3$					
[13075-01-9]					
1-(bromomethyl)-2-chlorobenzene	1.9×10^{-2}		HSDB (2015)	Q	182
C_7H_6BrCl					
[611-17-6]					
2-bromo-4-chloro-1-methoxybenzene	1.8×10^{-2}		Pfeifer et al. (2001)	M	273
C_7H_6BrClO					
(2-bromo-4-chloroanisole)					
[60633-25-2]					
2-bromo-6-chloro-1-methoxybenzene	1.4×10^{-2}		Pfeifer et al. (2001)	M	273
C_7H_6BrClO					
(2-bromo-6-chloroanisole)					
[174913-10-1]					
4-bromo-2-chloro-1-methoxybenzene	1.3×10^{-2}		Pfeifer et al. (2001)	M	273
C_7H_6BrClO					
(4-bromo-2-chloroanisole)					
[50638-47-6]					

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2-bromo-3,5-dichloro-1-methoxybenzene $C_7H_5BrCl_2O$ (2-bromo-3,5-dichloroanisole)	1.1×10^{-2}		Pfeifer et al. (2001)	M	273
2-bromo-4,6-dichloro-1-methoxybenzene $C_7H_5BrCl_2O$ (2-bromo-4,6-dichloroanisole) [60633-26-3]	8.2×10^{-3} 1.2×10^{-2}	3100	Diaz et al. (2005) Pfeifer et al. (2001)	M M	 273
4-bromo-2,3-dichloro-1-methoxybenzene $C_7H_5BrCl_2O$ (4-bromo-2,3-dichloroanisole) [109803-52-3]	1.1×10^{-2}		Pfeifer et al. (2001)	M	273
4-bromo-2,6-dichloro-1-methoxybenzene $C_7H_5BrCl_2O$ (4-bromo-2,6-dichloroanisole) [19240-91-6]	1.2×10^{-2} 1.2×10^{-2}	4900	Diaz et al. (2005) Pfeifer et al. (2001)	M M	 273
4-bromo-3,5-dichloro-1-methoxybenzene $C_7H_5BrCl_2O$ (4-bromo-3,5-dichloroanisole)	1.1×10^{-2}		Pfeifer et al. (2001)	M	273
3-bromo-2,6-dichloro-1-methoxybenzene $C_7H_5BrCl_2O$ (3-bromo-2,6-dichloroanisole)	1.1×10^{-2}	2700	Diaz et al. (2005)	M	284
5-bromo-2,4-dichloro-1-methoxybenzene $C_7H_5BrCl_2O$ (5-bromo-2,4-dichloroanisole)	1.1×10^{-2}		Pfeifer et al. (2001)	M	273
6-bromo-2,3-dichloro-1-methoxybenzene $C_7H_5BrCl_2O$ (6-bromo-2,3-dichloroanisole)	1.1×10^{-2}		Pfeifer et al. (2001)	M	273
6-bromo-2,5-dichloro-1-methoxybenzene $C_7H_5BrCl_2O$ (6-bromo-2,5-dichloroanisole) [174913-14-5]	7.7×10^{-3}	3000	Diaz et al. (2005)	M	
2-bromo-3,4,5-trichloro-1-methoxybenzene $C_7H_4BrCl_3O$ (2-bromo-3,4,5-trichloroanisole)	9.8×10^{-3}		Pfeifer et al. (2001)	M	273

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
3-bromo-2,4,6-trichloro-1-methoxybenzene $C_7H_4BrCl_3O$ (3-bromo-2,4,6-trichloroanisole) [174913-28-1]	1.0×10^{-2}		Pfeifer et al. (2001)	M	273
3-bromo-2,5,6-trichloro-1-methoxybenzene $C_7H_4BrCl_3O$ (3-bromo-2,5,6-trichloroanisole) [78647-93-5]	1.0×10^{-2}		Pfeifer et al. (2001)	M	273
4-bromo-2,3,6-trichloro-1-methoxybenzene $C_7H_4BrCl_3O$ (4-bromo-2,3,6-trichloroanisole) [78647-87-7]	1.0×10^{-2}		Pfeifer et al. (2001)	M	273
6-bromo-2,3,4-trichloro-1-methoxybenzene $C_7H_4BrCl_3O$ (6-bromo-2,3,4-trichloroanisole)	1.1×10^{-2}		Pfeifer et al. (2001)	M	273
4-bromo-2,3,5,6-tetrachloro-1-methoxybenzene $C_7H_3BrCl_4O$ (4-bromo-2,3,5,6-tetrachloroanisole) [174913-33-8]	9.2×10^{-3}		Pfeifer et al. (2001)	M	273
2,6-dibromo-3-chloro-1-methoxybenzene $C_7H_5Br_2ClO$ (2,6-dibromo-3-chloroanisole)	7.4×10^{-3}	770	Diaz et al. (2005)	M	284
2,6-dibromo-4-chloro-1-methoxybenzene $C_7H_5Br_2ClO$ (2,6-dibromo-4-chloroanisole) [174913-44-1]	2.0×10^{-2} 1.1×10^{-2}	6700	Diaz et al. (2005) Pfeifer et al. (2001)	M M	 273
2,4-dibromo-3,5-dichloro-1-methoxybenzene $C_7H_4Br_2Cl_2O$ (2,4-dibromo-3,5-dichloroanisole) [174913-52-1]	9.1×10^{-3}		Pfeifer et al. (2001)	M	273
2,4-dibromo-5,6-dichloro-1-methoxybenzene $C_7H_4Br_2Cl_2O$ (2,4-dibromo-5,6-dichloroanisole)	9.8×10^{-3}		Pfeifer et al. (2001)	M	273
2,3-dibromo-5,6-dichloro-1-methoxybenzene $C_7H_4Br_2Cl_2O$ (2,3-dibromo-5,6-dichloroanisole)	9.1×10^{-3}		Pfeifer et al. (2001)	M	273

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,6-dibromo-3,4,5-trichloro-1-methoxybenzene $C_7H_3Br_2Cl_3O$ (2,6-dibromo-3,4,5-trichloroanisole)	8.6×10^{-3}		Pfeifer et al. (2001)	M	273
2,4,6-tribromo-3-chloro-1-methoxybenzene $C_7H_4Br_3ClO$ (2,4,6-tribromo-3-chloroanisole) [174913-78-1]	9.1×10^{-3}		Pfeifer et al. (2001)	M	273
2',4',5',7'-tetrabromo-3,4,5,6-tetrachlorofluorescein $C_{20}H_4Br_4Cl_4O_5$ [13473-26-2]	1.5×10^{13} 1.9×10^{8} 8.0×10^{10} 2.2×10^{8}		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
bromochloroacetonitrile $C_2HBrClN$ [83463-62-1]	8.2		HSDB (2015)	Q	38
N,N'-dimethyl-3,3',4-tribromo-4,5,5'-trichloro-2,2'-bipyrrole $C_{10}H_6Br_3Cl_3N_2$ (DBP-Br3Cl3a) [400766-93-0]	7.1 9.5		Tittlemier et al. (2004) Hilal et al. (2008)	V Q	
N,N'-dimethyl-3,4,4'-tribromo-3',5,5'-trichloro-2,2'-bipyrrole $C_{10}H_6Br_3Cl_3N_2$ (DBP-Br3Cl3b) [666856-68-4]	3.3×10^{1} 9.5		Tittlemier et al. (2004) Hilal et al. (2008)	V Q	
N,N'-dimethyl-3,3',4,4'-tetrabromo-5,5'-dichloro-2,2'-bipyrrole $C_{10}H_6Br_4Cl_2N_2$ (DBP-Br4Cl2) [253798-64-0]	2.8×10^{1} 1.8×10^{1}		Tittlemier et al. (2004) Hilal et al. (2008)	V Q	
N,N'-dimethyl-3,3',4,4',5-pentabromo-5'-chloro-2,2'-bipyrrole $C_{10}H_6Br_5ClN_2$ (DBP-Br5Cl) [400767-00-2]	1.5×10^{2} 3.0×10^{1}		Tittlemier et al. (2004) Hilal et al. (2008)	V Q	
1-bromo-3-chloro-5,5-dimethylhydantoin $C_5H_6BrClN_2O_2$ [16079-88-2]	1.2×10^{1}		HSDB (2015)	Q	38
3-(4-bromo-3-chlorophenyl)-1-methoxy-1-methylurea $C_9H_{10}BrClN_2O_2$ (chlorbromuron) [13360-45-7]	2.2×10^{3} 3.2×10^{3} 2.5×10^{3}		HSDB (2015) Mackay et al. (2006d) MacBean (2012a)	V V ?	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
N-(4-bromo-2,6-dichloro-3-methylphenyl)acetamide	6.7×10^{3}		Zhang et al. (2010)	Q	107, 108
$C_9H_8BrCl_2NO$	6.2×10^{2}		Zhang et al. (2010)	Q	107, 109
[68399-95-1]	2.1×10^{4}		Zhang et al. (2010)	Q	107, 110
	6.5×10^{3}		Zhang et al. (2010)	Q	107, 111
halacrinate	2.4×10^{2}		MacBean (2012a)	?	
$C_{12}H_7NO_2BrCl$					
[34462-96-9]					
bromuconazole	1.2×10^{5}		HSDB (2015)	V	
$C_{13}H_{12}BrCl_2N_3O$					
[116255-48-2]					
5,7-dibromo-2-(5-bromo-7-chloro-1,3-dihydro-3-oxo-2H-indol-2-ylidene)-1,2-dihydro-3H-indol-3-one	4.2×10^{9}		Zhang et al. (2010)	Q	107, 108
$C_{16}H_6Br_3ClN_2O_2$	3.3×10^{15}		Zhang et al. (2010)	Q	107, 109
[85702-64-3]	2.4×10^{5}		Zhang et al. (2010)	Q	107, 110
	8.8×10^{9}		Zhang et al. (2010)	Q	107, 111
chlorantraniliprole	7.0×10^{15}		HSDB (2015)	Q	38
$C_{18}H_{14}BrCl_2N_5O_2$					
[500008-45-7]					
tribromofluoromethane	1.5×10^{-3}		Fogg and Sangster (2003)	V	
CBr_3F					
[353-54-8]					
bromochlorodifluoromethane	1.0×10^{-4}		HSDB (2015)	Q	38
$CBrClF_2$	8.6×10^{-5}		Hilal et al. (2008)	Q	
[353-59-3]	6.0×10^{-5}		Yaws (1999)	?	
1-bromo-1-chloro-2,2,2-trifluoroethane	5.6×10^{-4}	4700	Fogg and Sangster (2003)	L	
$C_2HBrClF_3$	3.1×10^{-4}		Steward et al. (1973)	L	19
(halothane)	2.8×10^{-4}		Guitart et al. (1989)	M	19
[151-67-7]	3.3×10^{-4}		Lerman et al. (1983)	M	19
	5.3×10^{-4}	5000	Smith et al. (1981b)	M	
	3.2×10^{-4}		Stoelting and Longshore (1972)	M	19
	8.8×10^{-4}		Hilal et al. (2008)	Q	
		4100	Kühne et al. (2005)	Q	
	4.9×10^{-4}		HSDB (2015)	?	170
		5000	Kühne et al. (2005)	?	
	4.8×10^{-4}		Abraham et al. (1990)	?	
chlorfenapyr	1.7×10^{3}		HSDB (2015)	Q	38
$C_{15}H_{11}BrClF_3N_2O$					
[122453-73-0]					
fluazolate	1.3×10^{1}		MacBean (2012a)	?	
$C_{15}H_{12}N_2O_2BrClF_4$					
[174514-07-9]					

Organic species with iodine (I)

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
Iodocarbons (C, H, O, Cl, I)					
iodomethane	2.0×10^{-3}	3600	Sander et al. (2011)	L	
CH_3I	2.0×10^{-3}	3600	Sander et al. (2006)	L	
(methyl iodide)	2.0×10^{-3}	3600	Staudinger and Roberts (2001)	L	
[74-88-4]	1.8×10^{-3}	3200	Hiatt (2013)	M	
	1.9×10^{-3}		Gan and Yates (1996)	M	113
	1.4×10^{-3}	4600	Moore et al. (1995)	M	127
	2.0×10^{-3}	3700	Elliott and Rowland (1993)	M	
	1.9×10^{-3}	3800	Hunter-Smith et al. (1983)	M	251
	2.0×10^{-3}	3100	Balls (1980)	M	
	1.8×10^{-3}	3000	Swain and Thornton (1962)	M	
	1.9×10^{-3}	3200	Glew and Moelwyn-Hughes (1953)	M	
	1.9×10^{-3}	3700	Rex (1906)	M	
	1.8×10^{-3}		Mackay et al. (2006b)	V	
	1.9×10^{-3}	3600	Fogg and Sangster (2003)	V	
	1.8×10^{-3}		Mackay et al. (1993)	V	
	1.8×10^{-3}		Abraham (1984)	V	
	1.8×10^{-3}		Hine and Mookerjee (1975)	V	
	1.7×10^{-3}		Liss and Slater (1974)	C	
	2.1×10^{-3}		Hilal et al. (2008)	Q	
		3800	Kühne et al. (2005)	Q	
	3.6×10^{-3}		Nirmalakhandan and Speece (1988a)	Q	
	1.8×10^{-3}		Mackay et al. (2006b)	?	
		3700	Kühne et al. (2005)	?	
	3.5×10^{-3}		Yaws (1999)	?	
	1.8×10^{-3}		Mackay et al. (1993)	?	
	3.5×10^{-3}		Yaws and Yang (1992)	?	92
diiodomethane	2.3×10^{-2}	5300	Moore et al. (1995)	M	127
CH_2I_2	3.2×10^{-2}		Mackay et al. (1993)	V	
[75-11-6]	7.3×10^{-2}		Hilal et al. (2008)	Q	
	2.9×10^{-2}		Yaws (1999)	?	
	2.8×10^{-2}		Yaws and Yang (1992)	?	92
	2.8×10^{-2}		Abraham et al. (1990)	?	
triiodomethane	6.2×10^{-3}		Fogg and Sangster (2003)	V	
CHI_3	3.2×10^{-6}		HSDB (2015)	Q	38
(iodoform)	1.3×10^{-3}		Hilal et al. (2008)	Q	
[75-47-8]	3.4×10^{-3}		Yaws and Yang (1992)	?	92
iodoethane	1.5×10^{-3}	4200	Fogg and Sangster (2003)	L	286
C_2H_5I	1.4×10^{-3}		Li et al. (1993)	M	
[75-03-6]	1.5×10^{-3}	4000	Rex (1906)	M	
	1.4×10^{-3}		Mackay et al. (2006b)	V	
	1.9×10^{-3}		Mackay et al. (1993)	V	
	1.4×10^{-3}		Abraham (1984)	V	
	1.4×10^{-3}		Hine and Mookerjee (1975)	V	
	1.9×10^{-3}		Hilal et al. (2008)	Q	
		4200	Kühne et al. (2005)	Q	
	1.2×10^{-3}		Nirmalakhandan and Speece (1988a)	Q	
		4100	Kühne et al. (2005)	?	
	1.8×10^{-3}		Yaws and Yang (1992)	?	92, 9
	1.4×10^{-3}		Abraham et al. (1990)	?	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1-iodopropane	1.1×10^{-3}		Li et al. (1993)	M	
C_3H_7I	1.0×10^{-3}	4600	Rex (1906)	M	
[107-08-4]	1.1×10^{-3}		Mackay et al. (2006b)	V	
	1.1×10^{-3}		Mackay et al. (1993)	V	
	9.9×10^{-4}		Abraham (1984)	V	
	1.1×10^{-3}		Hine and Mookerjee (1975)	V	
	1.6×10^{-3}		Hilal et al. (2008)	Q	
		4500	Kühne et al. (2005)	Q	
	9.5×10^{-4}		Nirmalakhandan and Speece (1988a)	Q	
		4500	Kühne et al. (2005)	?	
	1.2×10^{-3}		Yaws and Yang (1992)	?	92, 27
	9.9×10^{-4}		Abraham et al. (1990)	?	
2-iodopropane	8.5×10^{-4}	4500	Rex (1906)	M	
C_3H_7I	8.8×10^{-4}		Hine and Mookerjee (1975)	V	
[75-30-9]	7.9×10^{-4}		Hilal et al. (2008)	Q	
		4500	Kühne et al. (2005)	Q	
	5.4×10^{-4}		Nirmalakhandan and Speece (1988a)	Q	
		4700	Kühne et al. (2005)	?	
	1.1×10^{-3}		Yaws and Yang (1992)	?	92, 9
1-iodobutane	5.4×10^{-4}		Mackay et al. (2006b)	V	
C_4H_9I	5.4×10^{-4}		Mackay et al. (1993)	V	
[542-69-8]	6.1×10^{-4}		Abraham (1984)	V	
	6.2×10^{-4}		Hine and Mookerjee (1975)	V	
	1.2×10^{-3}		Hilal et al. (2008)	Q	
	7.5×10^{-4}		Nirmalakhandan and Speece (1988a)	Q	
	6.1×10^{-4}		Abraham et al. (1990)	?	
2-iodobutane C_4H_9I [513-48-4]	7.0×10^{-4}		Hilal et al. (2008)	Q	
1-iodopentane	9.9×10^{-4}		Hilal et al. (2008)	Q	
$C_5H_{11}I$	5.7×10^{-4}		Nirmalakhandan et al. (1997)	Q	
[628-17-1]	5.1×10^{-4}		Abraham et al. (1990)	?	
1-iodohexane	8.2×10^{-4}		Hilal et al. (2008)	Q	
$C_6H_{13}I$	4.5×10^{-4}		Nirmalakhandan et al. (1997)	Q	
[638-45-9]	3.5×10^{-4}		Abraham et al. (1990)	?	
1-iodoheptane	2.6×10^{-4}		Abraham (1984)	V	
$C_7H_{15}I$	6.7×10^{-4}		Hilal et al. (2008)	Q	
[4282-40-0]	3.5×10^{-4}		Nirmalakhandan et al. (1997)	Q	
	2.5×10^{-4}		Abraham et al. (1990)	?	
iodocyclohexane $C_6H_{11}I$ [626-62-0]	3.9×10^{-3}		Hilal et al. (2008)	Q	
3-iodo-1-propene C_3H_5I [556-56-9]	3.8×10^{-3}		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1-iodocyclohexene C_6H_9I [17497-53-9]	4.1×10^{-3}		Hilal et al. (2008)	Q	
iodobenzene C_6H_5I [591-50-4]	7.7×10^{-3}		Mackay and Shiu (1981)	L	
	7.6×10^{-3}		Li and Carr (1993)	M	
	1.2×10^{-2}		HSDB (2015)	V	
	7.9×10^{-3}		Schüürmann (2000)	V	
	1.3×10^{-2}		Mackay et al. (1993)	V	
	1.4×10^{-2}		Hilal et al. (2008)	Q	
	3.8×10^{-3}		Nirmalakhandan et al. (1997)	Q	
	7.4×10^{-3}		Yaws and Yang (1992)	?	92
	7.7×10^{-3}		Abraham et al. (1990)	?	
iodoacetic acid $C_2H_3IO_2$ [64-69-7]	2.4×10^{2}		HSDB (2015)	Q	38
2-iodophenol C_6H_5IO [533-58-4]	1.4×10^{1}		Abraham et al. (1994a)	R	
	6.9		Hilal et al. (2008)	Q	
	1.6×10^{2}		Nirmalakhandan et al. (1997)	Q	
3-iodophenol C_6H_5IO [626-02-8]	7.0×10^{1}		Hilal et al. (2008)	Q	
4-iodophenol C_6H_5IO [540-38-5]	4.6×10^{1}		Hilal et al. (2008)	Q	
erythrosine $C_{20}H_8I_4O_5$ [16423-68-0]	3.9×10^{13}		Zhang et al. (2010)	Q	107, 108
	2.3×10^{8}		Zhang et al. (2010)	Q	107, 109
	8.6×10^{10}		Zhang et al. (2010)	Q	107, 110
	5.1×10^{9}		Zhang et al. (2010)	Q	107, 111
4-hydroxy-3,5-diiodo-benzonitrile $C_7H_3I_2NO$ [1689-83-4]	1.3×10^{2}		Mackay et al. (2006d)	V	
	1.8×10^{4}		HSDB (2015)	Q	38
3-iodo-2-propynyl butylcarbamate $C_8H_{12}INO_2$ [55406-53-6]	8.2×10^{1}		HSDB (2015)	V	
diatrizoic acid $C_{11}H_9I_3N_2O_4$ [117-96-4]	3.5×10^{12}		Zhang et al. (2010)	Q	107, 108
	5.4×10^{8}		Zhang et al. (2010)	Q	107, 109
	1.2×10^{17}		Zhang et al. (2010)	Q	107, 110
	3.3×10^{16}		Zhang et al. (2010)	Q	107, 111
iothalamic acid $C_{11}H_9I_3N_2O_4$ [2276-90-6]	4.4×10^{12}		Zhang et al. (2010)	Q	107, 108
	4.8×10^{9}		Zhang et al. (2010)	Q	107, 109
	4.2×10^{16}		Zhang et al. (2010)	Q	107, 110
	1.9×10^{16}		Zhang et al. (2010)	Q	107, 111
benodanil $C_{13}H_{10}INO$ [15310-01-7]	6.2×10^{5}		Mackay et al. (2006d)	V	
	$>2.3\times10^{10}$		MacBean (2012a)	?	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
iopamidol $C_{17}H_{22}I_3N_3O_8$ [60166-93-0]	9.0×10^{19}		HSDB (2015)	Q	38
ioxaglic acid $C_{24}H_{21}I_6N_5O_8$ [59017-64-0]	2.7×10^{35}		Zhang et al. (2010)	Q	107, 108
	1.4×10^{27}		Zhang et al. (2010)	Q	107, 109
	2.0×10^{29}		Zhang et al. (2010)	Q	107, 110
	7.2×10^{38}		Zhang et al. (2010)	Q	107, 111
1,1,1,2,2,3,3-heptafluoro-5-iodopentane $C_5H_4F_7I$ [68188-12-5]	4.6×10^{-6}		Zhang et al. (2010)	Q	107, 108
	1.2×10^{-4}		Zhang et al. (2010)	Q	107, 109
	3.8×10^{-4}		Zhang et al. (2010)	Q	107, 110
	5.0×10^{-6}		Zhang et al. (2010)	Q	107, 111
5-diethylamiloride $C_6H_4F_9I$ [2043-55-2]	8.8×10^{-7}		Zhang et al. (2010)	Q	107, 108
	5.6×10^{-5}		Zhang et al. (2010)	Q	107, 109
	1.9×10^{-4}		Zhang et al. (2010)	Q	107, 110
	1.0×10^{-6}		Zhang et al. (2010)	Q	107, 111
1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-8-iodooctane $C_8H_4F_{13}I$ [2043-57-4]	3.2×10^{-8}		Zhang et al. (2010)	Q	107, 108
	3.4×10^{-6}		Zhang et al. (2010)	Q	107, 109
	5.4×10^{-5}		Zhang et al. (2010)	Q	107, 110
	4.3×10^{-8}		Zhang et al. (2010)	Q	107, 111
1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-10-iododecane $C_{10}H_4F_{17}I$ [2043-53-0]	1.2×10^{-9}		Zhang et al. (2010)	Q	107, 108
	7.7×10^{-8}		Zhang et al. (2010)	Q	107, 109
	2.0×10^{-5}		Zhang et al. (2010)	Q	107, 110
	2.3×10^{-9}		Zhang et al. (2010)	Q	107, 111
chloroiodomethane CH_2ClI [593-71-5]	8.8×10^{-3}	4600	Moore et al. (1995)	M	127
	2.0×10^{-2}		Hilal et al. (2008)	Q	

Organic species with sulfur (S)

Sulfur (C, H, O, N, Cl, S)

methanethiol CH_3SH (methyl mercaptan) [74-93-1]	3.8×10^{-3}	3400	Sander et al. (2011)	L	
	3.8×10^{-3}	3400	Sander et al. (2006)	L	
	2.8×10^{-3}	3100	Staudinger and Roberts (2001)	L	
	2.0×10^{-3}	2800	De Bruyn et al. (1995b)	M	
	3.9×10^{-3}	3400	Przyjazny et al. (1983)	M	
	3.3×10^{-3}		Hine and Weimar (1965)	M	
	3.2×10^{-3}		HSDB (2015)	V	
	3.3×10^{-3}		Hine and Mookerjee (1975)	V	
	2.6×10^{-3}	1600	Goldstein (1982)	X	116
	3.5×10^{-3}		Hilal et al. (2008)	Q	
		3300	Kühne et al. (2005)	Q	
	2.9×10^{-3}		Nirmalakhandan et al. (1997)	Q	
		3400	Kühne et al. (2005)	?	
	5.1×10^{-3}		Yaws (1999)	?	
	4.0×10^{-3}		Abraham et al. (1990)	?	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
ethanethiol	2.8×10^{-3}	3700	Sander et al. (2011)	L	
C_2H_5SH	2.8×10^{-3}	3700	Sander et al. (2006)	L	
(ethyl mercaptan)	2.8×10^{-3}	3700	Przyjazny et al. (1983)	M	
[75-08-1]	2.2×10^{-3}		Vitenberg et al. (1975)	M	
	3.4×10^{-3}		Mackay et al. (2006d)	V	
	3.4×10^{-3}		Mackay et al. (1995)	V	
	3.4×10^{-3}		Hwang et al. (1992)	V	
	3.6×10^{-3}		Hine and Mookerjee (1975)	V	
	3.9×10^{-3}		Hilal et al. (2008)	Q	
		3600	Kühne et al. (2005)	Q	
	1.9×10^{-3}		Nirmalakhandan et al. (1997)	Q	
		3700	Kühne et al. (2005)	?	
	3.4×10^{-3}		Yaws and Yang (1992)	?	92
	2.8×10^{-3}		Abraham et al. (1990)	?	
1,2-ethanedithiol $C_2H_6S_2$ [540-63-6]	8.2×10^{-2}		HSDB (2015)	Q	38
thiirane C_2H_4S (ethylene sulfide) [420-12-2]	2.8×10^{-2}		HSDB (2015)	Q	38
1-propanethiol	1.7×10^{-3}	3100	Coquelet and Richon (2005)	M	
C_3H_7SH	2.4×10^{-3}	3900	Przyjazny et al. (1983)	M	
(propyl mercaptan)	3.4×10^{-3}		Hilal et al. (2008)	Q	
[107-03-9]		4000	Kühne et al. (2005)	Q	
	1.5×10^{-3}		Nirmalakhandan et al. (1997)	Q	
		3800	Kühne et al. (2005)	?	
	2.4×10^{-3}		Abraham et al. (1990)	?	
2-propanethiol	2.1×10^{-3}		HSDB (2015)	Q	38
C_3H_8S	2.1×10^{-3}		Hilal et al. (2008)	Q	
[75-33-2]					
1-butanethiol	1.5×10^{-3}	3600	Coquelet and Richon (2005)	M	
C_4H_9SH	2.2×10^{-3}	4100	Przyjazny et al. (1983)	M	
(butyl mercaptan)	1.1×10^{-3}		Mackay et al. (2006d)	V	
[109-79-5]	1.1×10^{-3}		Mackay et al. (1995)	V	
	1.4×10^{-3}		Hwang et al. (1992)	V	
	2.7×10^{-3}		Hilal et al. (2008)	Q	
		4300	Kühne et al. (2005)	Q	
	1.2×10^{-3}		Nirmalakhandan et al. (1997)	Q	
		4200	Kühne et al. (2005)	?	
	1.1×10^{-3}		Yaws and Yang (1992)	?	92
	2.2×10^{-3}		Abraham et al. (1990)	?	
2-butanethiol $C_4H_{10}S$ [513-53-1]	1.4×10^{-3}		HSDB (2015)	V	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2-methyl-1-propanethiol $C_4H_{10}S$ [513-44-0]	2.4×10^{-3}		Hilal et al. (2008)	Q	
2-methyl-2-propanethiol $C_4H_{10}S$ [75-66-1]	1.6×10^{-3} 6.1×10^{-4}		HSDB (2015) Hilal et al. (2008)	Q Q	38
1,4-dithiane $C_4H_8S_2$ [505-29-3]	2.3×10^{-1}		HSDB (2015)	V	
1-pentanethiol $C_5H_{11}SH$ (pentyl mercaptan) [110-66-7]	8.2×10^{-4} 7.3×10^{-4} 2.3×10^{-3}		HSDB (2015) Amoore and Buttery (1978) Hilal et al. (2008)	V V Q	
1-hexanethiol $C_6H_{14}S$ [111-31-9]	1.9×10^{-3}		Hilal et al. (2008)	Q	
1-heptanethiol $C_7H_{16}S$ [1639-09-4]	2.7×10^{-3}		Hilal et al. (2008)	Q	
1-octanethiol $C_8H_{18}S$ [111-88-6]	4.3×10^{-4} 1.3×10^{-3}		HSDB (2015) Hilal et al. (2008)	Q Q	38
tert-octanethiol $C_8H_{18}S$ [141-59-3]	5.2×10^{-4}		HSDB (2015)	Q	38
1-nonanethiol $C_9H_{20}S$ [1455-21-6]	1.2×10^{-3}		Hilal et al. (2008)	Q	
1-decanethiol $C_{10}H_{22}S$ [143-10-2]	9.9×10^{-4}		Hilal et al. (2008)	Q	
1-dodecanethiol $C_{12}H_{26}S$ [112-55-0]	1.7×10^{-4}		HSDB (2015)	Q	38
dicyclohexyldisulfide $C_{12}H_{22}S_2$ [2550-40-5]	2.5×10^{-3}		HSDB (2015)	Q	38
dimethyl sulfide CH_3SCH_3 (DMS) [75-18-3]	5.6×10^{-3} 5.3×10^{-3} 5.3×10^{-3} 5.2×10^{-3} 5.3×10^{-3} 4.6×10^{-3} 4.8×10^{-3} 5.2×10^{-3} 5.5×10^{-3}	3500 3500 3500 3600 3500 2800 3600 3800	Warneck and Williams (2012) Sander et al. (2011) Sander et al. (2006) Fogg and Sangster (2003) Staudinger and Roberts (2001) Schuhfried et al. (2011) Falabella (2007) Coquelet and Richon (2005) Iliuta and Larachi (2005)	L L L L L M M M M	 89, 130

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
	4.9×10^{-3}		Straver and de Loos (2005)	M	
	6.4×10^{-3}	4100	Barcellos da Rosa et al. (2003)	M	
	4.9×10^{-3}		Pollien et al. (2003)	M	
	4.7×10^{-3}	3700	Gershenzon et al. (2001)	M	
	1.6×10^{-2}		Marin et al. (1999)	M	
	4.2×10^{-3}	4300	Wong and Wang (1997)	M	
	4.7×10^{-3}	3100	De Bruyn et al. (1995b)	M	
	5.5×10^{-3}	3500	Dacey et al. (1984)	M	
	5.6×10^{-3}	4000	Przyjazny et al. (1983)	M	
	6.1×10^{-3}		Vitenberg et al. (1975)	M	9
	1.6×10^{-3}		Lovelock et al. (1972)	M	
			Mackay et al. (2006d)	V	221
	4.2×10^{-3}		Marin et al. (1999)	V	
	1.3×10^{-1}		Mackay et al. (1995)	V	
	5.4×10^{-3}		Hine and Mookerjee (1975)	V	
	5.5×10^{-3}		Hine and Weimar (1965)	V	
	7.0×10^{-3}		Vitenberg et al. (1975)	R	9
	6.0×10^{-3}	3700	Bagno et al. (1991)	T	196
	6.1×10^{-3}		Gaffney and Senum (1984)	X	153
	4.4×10^{-3}		Cline and Bates (1983)	C	127
	1.2×10^{-2}		Hilal et al. (2008)	Q	
	7.2×10^{-3}		Hertel et al. (2007)	Q	194
		3100	Kühne et al. (2005)	Q	
	5.0×10^{-3}		Marin et al. (1999)	Q	
	6.5×10^{-3}		Nirmalakhandan et al. (1997)	Q	
		3500	Kühne et al. (2005)	?	
	1.7×10^{-3}		Abraham et al. (1990)	?	
ethyl methyl sulfide C_3H_8S [624-89-5]	4.2×10^{-3}		Schuhfried et al. (2011)	M	
	5.1×10^{-3}		Bagno et al. (1991)	T	196
	8.6×10^{-3}		Hilal et al. (2008)	Q	
	4.4×10^{-3}		Nirmalakhandan et al. (1997)	Q	
diethyl sulfide $C_2H_5SC_2H_5$ [352-93-2]	3.5×10^{-3}		Schuhfried et al. (2011)	M	
	5.4×10^{-3}	4900	Przyjazny et al. (1983)	M	
	5.1×10^{-1}		Mackay et al. (2006d)	V	
	4.5×10^{-3}		Hine and Mookerjee (1975)	V	
	6.0×10^{-3}		Hilal et al. (2008)	Q	
	2.9×10^{-3}		Nirmalakhandan et al. (1997)	Q	
	5.7×10^{-3}		Yaws and Yang (1992)	?	92, 9
	4.7×10^{-3}		Abraham et al. (1990)	?	
dipropyl sulfide $C_3H_7SC_3H_7$ [111-47-7]	3.3×10^{-3}	4500	Przyjazny et al. (1983)	M	
	3.4×10^{-3}		Hilal et al. (2008)	Q	
		4500	Kühne et al. (2005)	Q	
	1.8×10^{-3}		Nirmalakhandan et al. (1997)	Q	
		4500	Kühne et al. (2005)	?	
	3.5×10^{-3}		Abraham et al. (1990)	?	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
di-(2-propyl)-sulfide	3.0×10^{-3}	5000	Przyjazny et al. (1983)	M	
$(C_3H_7)_2S$	1.6×10^{-3}		Hilal et al. (2008)	Q	
(diisopropyl sulfide)		4500	Kühne et al. (2005)	Q	
[625-80-9]	1.2×10^{-3}		Nirmalakhandan et al. (1997)	Q	
		4200	Kühne et al. (2005)	?	
	3.1×10^{-3}		Abraham et al. (1990)	?	
allyl methyl sulfide	4.2×10^{-3}		Schuhfried et al. (2011)	M	
C_4H_8S					
[10152-76-8]					
dimethyl disulfide	5.8×10^{-3}		Schuhfried et al. (2011)	M	
CH_3SSCH_3	6.5×10^{-3}	3200	Falabella (2007)	M	89, 130
[624-92-0]	5.9×10^{-3}		Pollien et al. (2003)	M	
	9.4×10^{-3}	4300	Przyjazny et al. (1983)	M	
	8.3×10^{-3}		Vitenberg et al. (1975)	M	9
	1.7×10^{-2}		Mackay et al. (2006d)	V	
	1.7×10^{-2}		Mackay et al. (1995)	V	
	9.0×10^{-3}		Vitenberg et al. (1975)	R	9
	3.0×10^{-2}		Hilal et al. (2008)	Q	
		1700	Kühne et al. (2005)	Q	
	4.6×10^{-3}		Nirmalakhandan et al. (1997)	Q	
		1600	Kühne et al. (2005)	?	
	9.0×10^{-3}		Abraham et al. (1990)	?	
diethyl disulfide	3.7×10^{-3}		Schuhfried et al. (2011)	M	
$C_2H_5SSC_2H_5$	6.3×10^{-3}	4300	Przyjazny et al. (1983)	M	
[110-81-6]	4.7×10^{-3}		Vitenberg et al. (1975)	M	9
	1.2×10^{-2}		Hilal et al. (2008)	Q	
	2.3×10^{-3}		Nirmalakhandan et al. (1997)	Q	
	6.4×10^{-3}		Abraham et al. (1990)	?	
dipropyl disulfide	2.4×10^{-3}		Schuhfried et al. (2011)	M	
$C_3H_7SSC_3H_7$					
[629-19-6]					
carbon disulfide	6.1×10^{-4}	3900	Warneck and Williams (2012)	L	
CS_2	6.1×10^{-4}	4300	Sander et al. (2011)	L	
[75-15-0]	6.1×10^{-4}	4300	Sander et al. (2006)	L	
	5.7×10^{-4}	3800	Hiatt (2013)	M	
	5.4×10^{-4}	2800	De Bruyn et al. (1995b)	M	
	6.2×10^{-4}	3800	Elliott (1989)	M	
	5.4×10^{-4}	4300	Rex (1906)	M	
	5.7×10^{-4}		Mackay et al. (2006d)	V	
	5.7×10^{-4}		Mackay et al. (1995)	V	
	8.0×10^{-4}		Hwang et al. (1992)	V	
	4.5×10^{-4}	4100	Winkler (1906)	V	
	7.5×10^{-4}	1200	Goldstein (1982)	X	116
	9.4×10^{-5}		Yaws (1999)	?	
	5.1×10^{-4}		Yaws and Yang (1992)	?	92
			Kruis and May (1962)	?	287
			Booth and Jolley (1943)	?	288
			Booth and Jolley (1943)	?	289

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,3,4-trithiapentane $C_2H_6S_3$ (dimethyltrisulfide) [3658-80-8]	2.1×10^{-2}		Roberts and Pollien (1997)	M	
5-propyl-5-nonanethiol $C_{12}H_{26}S$	1.7×10^{-4}		Zhang et al. (2010)	Q	107, 108
	5.8×10^{-4}		Zhang et al. (2010)	Q	107, 109
	2.4×10^{-3}		Zhang et al. (2010)	Q	107, 110
	9.7×10^{-5}		Zhang et al. (2010)	Q	107, 111
allyl mercaptan C_3H_6S [870-23-5]	1.2×10^{-2}		Hilal et al. (2008)	Q	
3,3'-thiobis-1-propene $(C_3H_5)_2S$ (diallyl sulfide) [592-88-1]	4.1×10^{-3}		Lindinger et al. (1998)	M	290
	7.6×10^{-3}		HSDB (2015)	Q	38
	9.9×10^{-3}		Hilal et al. (2008)	Q	
thiophene C_4H_4S [110-02-1]	4.4×10^{-3}	4000	Przyjazny et al. (1983)	M	
	3.4×10^{-3}		HSDB (2015)	V	
			Mackay et al. (2006d)	V	221
	4.5×10^{-3}		Mackay et al. (1995)	V	
	1.4×10^{-3}		Hilal et al. (2008)	Q	
		2800	Kühne et al. (2005)	Q	
	4.5×10^{-3}		Mackay et al. (2006d)	?	
		1900	Kühne et al. (2005)	?	
	3.4×10^{-3}		Yaws and Yang (1992)	?	92
	4.4×10^{-3}		Abraham et al. (1990)	?	
2-methylthiophene $CH_3C_4H_3S$ [554-14-3]	4.1×10^{-3}	4300	Przyjazny et al. (1983)	M	
	1.4×10^{-3}		Hilal et al. (2008)	Q	
	4.1×10^{-3}		Abraham et al. (1990)	?	
3-methylthiophene $CH_3C_4H_3S$ [616-44-4]	1.7×10^{-3}		Hilal et al. (2008)	Q	
propyl allyl disulfide $C_6H_{12}S_2$ [2179-59-1]	3.5×10^{-3}		HSDB (2015)	Q	38
benzenethiol C_6H_5SH (thiophenol) [108-98-5]	2.9×10^{-2}		HSDB (2015)	V	
	3.0×10^{-2}		Hine and Mookerjee (1975)	V	
	3.0×10^{-2}		Hine and Weimar (1965)	V	
	3.0×10^{-2}		Schüürmann (2000)	C	7
	4.1×10^{-2}		Hilal et al. (2008)	Q	
	1.0×10^{-2}		Nirmalakhandan et al. (1997)	Q	
	3.0×10^{-2}		Abraham et al. (1990)	?	
methyl phenyl sulfide $C_6H_5SCH_3$ (thioanisole) [100-68-5]	4.0×10^{-2}		Hine and Mookerjee (1975)	V	
	4.1×10^{-2}		Hine and Weimar (1965)	V	
	5.8×10^{-2}		Hilal et al. (2008)	Q	
	2.3×10^{-2}		Nirmalakhandan et al. (1997)	Q	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2-methylbenzenethiol C_7H_8S (2-thiocresol) [137-06-4]	2.7×10^{-2}		HSDB (2015)	Q	38
3-methylbenzenethiol C_7H_8S (3-thiocresol) [108-40-7]	2.7×10^{-2}		HSDB (2015)	Q	38
4-methylbenzenethiol C_7H_8S (4-thiocresol) [106-45-6]	2.7×10^{-2}		HSDB (2015)	Q	38
benzenemethanethiol C_7H_8S [100-53-8]	4.7×10^{-2}		HSDB (2015)	Q	38
benzo[*b*]thiophene			Mackay et al. (2006d)	V	221
C_8H_6S	4.1×10^{-2}		Mackay et al. (1995)	V	
[95-15-8]	3.6×10^{-2}		Smith and Bomberger (1980)	X	164
dibenzothiophene	2.9×10^{-1}		HSDB (2015)	V	
$C_{12}H_8S$	2.3×10^{-2}		Mackay et al. (2006d)	V	
[132-65-0]	2.3×10^{-2}		Mackay et al. (1995)	V	
benzyl sulfide $C_{14}H_{14}S$ [538-74-9]	1.9		HSDB (2015)	Q	38
carbon oxide sulfide	2.1×10^{-4}	3300	Warneck and Williams (2012)	L	
OCS	2.0×10^{-4}	3500	Sander et al. (2011)	L	
(carbonyl sulfide)	2.0×10^{-4}	3500	Sander et al. (2006)	L	
[463-58-1]	2.1×10^{-4}	3000	Wilhelm et al. (1977)	L	
	2.2×10^{-4}	2100	De Bruyn et al. (1995b)	M	
	1.5×10^{-4}	3800	Johnson and Harrison (1986)	M	127
	1.5×10^{-4}	3500	Hoyt (1982)	M	127
	2.4×10^{-4}		Stock and Kuß (1917)	M	
	2.1×10^{-4}	3300	Winkler (1906)	M	
	3.4×10^{-4}		Hempel (1901)	M	236
	1.6×10^{-5}		HSDB (2015)	V	
	2.0×10^{-4}	3500	Winkler (1907)	X	291
	2.1×10^{-4}	3300	Winkler (1907)	X	292
		2900	Kühne et al. (2005)	Q	
		3300	Kühne et al. (2005)	?	
	2.0×10^{-4}		Yaws (1999)	?	
	1.9×10^{-4}		Yaws and Yang (1992)	?	92
methanesulfonic acid CH_3SO_3H (MSA) [75-75-2]			Brimblecombe and Clegg (1988)	T	293

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
sulfuric acid, dimethyl ester $C_2H_6O_4S$ [77-78-1]	6.9		Hilal et al. (2008)	Q	
dimethylsulfoxide CH_3SOCH_3 (DMSO) [67-68-5]	9.8×10^2		Sander et al. (2011)	L	
	9.8×10^2		Sander et al. (2006)	L	
	$>9.9\times10^3$		Lee and Zhou (1994)	M	
	9.4×10^2	1300	Watts and Brimblecombe (1987)	M	
	4.4		Mackay et al. (2006d)	V	
	4.4		Mackay et al. (1995)	V	
	1.0×10^4	8700	Bagno et al. (1991)	T	196
	1.4×10^1		Betterton (1992)	C	
	4.3×10^3		Hilal et al. (2008)	Q	
		3100	Kühne et al. (2005)	Q	
	6.7×10^3		Taft et al. (1985)	Q	
		4100	Kühne et al. (2005)	?	
			Fogg and Sangster (2003)	?	294
dimethylsulfone $CH_3SO_2CH_3$ (DMSO2) [67-71-0]	5.0×10^{-3}		Mackay et al. (2006d)	V	
	5.0×10^{-3}		Mackay et al. (1995)	V	
	$>4.9\times10^2$		De Bruyn et al. (1994)	E	
mercaptoacetic acid $C_2H_4O_2S$ [68-11-1]	5.2×10^2		HSDB (2015)	Q	38
2-mercaptoethanol C_2H_6OS [60-24-2]	5.5×10^1		HSDB (2015)	V	
methanesulfonic acid, methyl ester $C_2H_6O_3S$ [66-27-3]	2.5		HSDB (2015)	Q	38
mercaptoacetic acid, methyl ester $C_3H_6O_2S$ (methyl thioglycolate) [2365-48-2]	1.6		HSDB (2015)	Q	38
methanesulfonic acid, ethyl ester $C_3H_8O_3S$ [62-50-0]	1.8		HSDB (2015)	Q	38
divinyl sulfoxide C_4H_6OS (vinyl sulfoxide) [1115-15-7]	2.5×10^1		HSDB (2015)	Q	38
divinyl sulphone $C_4H_6O_2S$ [77-77-0]	2.0×10^{-1}		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2,5-dihydrothiophene sulfone $C_4H_6O_2S$ (2,5-dihydrothiophene 1,1-dioxide) [77-79-2]	2.3		HSDB (2015)	Q	38
thiodiacetic acid $C_4H_6O_4S$ [123-93-3]	2.2×10^{8}		HSDB (2015)	Q	38
thiophene, tetrahydro-, 1,1-dioxide $C_4H_8O_2S$ (sulfolane) [126-33-0]	2.1		HSDB (2015)	Q	38
2-(ethylthio)ethanol $C_4H_{10}OS$ [110-77-0]	1.9×10^{2}		HSDB (2015)	Q	38
thiodiglycol $C_4H_{10}O_2S$ [111-48-8]	5.2×10^{3}		HSDB (2015)	Q	38
methanesulfonic acid, 1-methylethyl ester $C_4H_{10}O_3S$ [926-06-7]	1.4		HSDB (2015)	Q	38
4-hydroxybenzenesulfonic acid $C_6H_6O_4S$ [98-67-9]	3.8×10^{7}		HSDB (2015)	Q	38
benzenesulfonic acid $C_6H_6O_3S$ [98-11-3]	3.9×10^{3}		HSDB (2015)	Q	38
dimethipin $C_6H_{10}O_4S_2$ [55290-64-7]	4.3×10^{5}		MacBean (2012a)	?	
4-methylbenzenesulfonic acid $C_7H_8O_3S$ [104-15-4]	3.6×10^{3}		HSDB (2015)	Q	38
phenylmethanesulfonic acid $C_7H_8O_3S$ (benzylsulfonic acid) [100-87-8]	9.9×10^{3}		HSDB (2015)	Q	38
4,4'-sulfonyldiphenol $C_{12}H_{10}O_4S$ (bisphenol S) [80-09-1]	3.7×10^{9}		HSDB (2015)	Q	182
lauryl sulfate $C_{12}H_{26}O_4S$ (dodecyl sulfate) [151-41-7]	5.5×10^{1}		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
ethofumesate $C_{13}H_{18}O_5S$ [26225-79-6]	2.7×10^{2}		HSDB (2015)	V	
1,1'-sulfonylbis(4-(1-methylethyl)-benzene $C_{18}H_{22}O_2S$ [57913-35-6]	1.0×10^{1} 2.9×10^{3} 6.7×10^{4} 3.1×10^{2}		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
propargite $C_{19}H_{26}O_4S$ [2312-35-8]	1.5×10^{1}		HSDB (2015)	V	
kadethrin $C_{23}H_{24}O_4S$ [58769-20-3]	1.2×10^{4}		HSDB (2015)	Q	38
spironolactone $C_{24}H_{32}O_4S$ [52-01-7]	9.0×10^{4}		HSDB (2015)	Q	38
2,2'-thiobis(4-(1,1,3,3-tetramethylbutyl)phenol) $C_{28}H_{42}O_2S$ [3294-03-9]	4.5×10^{5} 1.2×10^{4} 2.2×10^{7} 1.8×10^{5}		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
propanoic acid, 3,3'-thiobis-, didodecyl ester $C_{30}H_{58}O_4S$ (dilauryl thiodipropionate) [123-28-4]	2.5		HSDB (2015)	Q	182
dioctadecyl 3,3'-thiodipropionate $C_{42}H_{82}O_4S$ [693-36-7]	8.2×10^{-2}		HSDB (2015)	Q	182
methyl isothiocyanate CH_3NCS [556-61-6]	1.7×10^{-1} 1.6×10^{-1} 2.2×10^{-1}		Sander et al. (2011) Worthington and Wade (2007) HSDB (2015)	L M V	
thiourea CH_4N_2S [62-56-6]	4.9×10^{3}		HSDB (2015)	V	
hydrazinecarbothioamide CH_5N_3S (1-amino-2-thiourea) [79-19-6]	1.5×10^{4}		HSDB (2015)	Q	38
thiocyanic acid, methyl ester C_2H_3NS [556-64-9]	2.2×10^{-1}		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
ethanethioamide C_2H_5NS (thioacetamide) [62-55-5]	1.5		HSDB (2015)	Q	38
mercaptamine C_2H_7NS (cysteamine) [60-23-1]	2.7×10^{1}		HSDB (2015)	Q	38
thiocyanic acid, ethyl ester C_3H_5NS [542-90-5]	1.7×10^{-1}		HSDB (2015)	Q	38
2-imidazolidinethione $C_3H_6N_2S$ (ethylene thiourea) [96-45-7]	2.9×10^{1}		HSDB (2015)	Q	38
ethylthiourea $C_3H_8N_2S$ [625-53-6]	4.2×10^{2}		HSDB (2015)	Q	38
allyl isothiocyanate C_4H_5NS [57-06-7]	4.1×10^{-2}		HSDB (2015)	V	
dazomet $C_5H_{10}N_2S_2$ [533-74-4]	4.6×10^{4} 3.7×10^{4}		Mackay et al. (2006d) MacBean (2012b)	V X	 137
N,N'-diethylthiourea $C_5H_{12}N_2S$ [105-55-5]	1.4×10^{2}		HSDB (2015)	Q	38
tetramethylthiourea $C_5H_{12}N_2S$ [2782-91-4]	8.5×10^{2}		HSDB (2015)	Q	38
thiram $C_6H_{12}N_2S_4$ [137-26-8]	9.3×10^{1} 3.0×10^{1}		Mackay et al. (2006d) MacBean (2012b)	V X	 137
bis(dimethylthiocarbamyl) sulfide $C_6H_{12}N_2S_3$ (bis(dimethylthiocarbamoyl) sulfide) [97-74-5]	5.8×10^{-1}		HSDB (2015)	Q	38
benzothiazole C_7H_5NS [95-16-9]	2.7×10^{1} 2.7×10^{1} 2.8 1.1×10^{1} 2.0		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q Q	38 107, 108 107, 109 107, 110 107, 111

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2-mercaptobenzothiazole	2.7×10^{2}		HSDB (2015)	Q	38
$C_7H_5NS_2$	2.7×10^{2}		Zhang et al. (2010)	Q	107, 108
[149-30-4]	2.8×10^{3}		Zhang et al. (2010)	Q	107, 109
	2.2×10^{2}		Zhang et al. (2010)	Q	107, 110
	2.1×10^{1}		Zhang et al. (2010)	Q	107, 111
2-benzothiazolamine	7.6×10^{4}		HSDB (2015)	Q	38
$C_7H_6N_2S$					
[136-95-8]					
phenylthiourea	9.9×10^{4}		HSDB (2015)	Q	38
$C_7H_8N_2S$					
[103-85-5]					
aziprotryn	4.0×10^{2}		Abraham et al. (2007)	Q	
$C_7H_{11}N_7S$	9.2×10^{2}		MacBean (2012a)	?	
[4658-28-0]					
simetryn	2.2×10^{4}		Mackay et al. (2006d)	V	
$C_8H_{15}N_5S$	2.9×10^{4}		Hilal et al. (2008)	Q	
[1014-70-6]	1.0×10^{4}		Abraham et al. (2007)	Q	
desmetryn	2.1×10^{4}		HSDB (2015)	V	
$C_8H_{15}N_5S$	5.0×10^{7}		Delgado and Alderete (2003)	C	
[1014-69-3]	2.2×10^{4}		Hilal et al. (2008)	Q	
	2.0×10^{4}		Abraham et al. (2007)	Q	
	1.4×10^{9}		Delgado and Alderete (2003)	Q	
	3.9×10^{7}		Delgado and Alderete (2003)	Q	
	2.1×10^{4}		MacBean (2012a)	?	
thioquinox	1.3×10^{2}		HSDB (2015)	Q	38
$C_9H_4N_2S_3$					
[93-75-4]					
thiocyanic acid, (2-benzothiazolylthio)methyl ester	1.5×10^{6}		HSDB (2015)	Q	38
$C_9H_6N_2S_3$					
[21564-17-0]					
ametryn	4.1×10^{3}		HSDB (2015)	V	
$C_9H_{17}N_5S$	8.1×10^{3}		Mackay et al. (2006d)	V	
[834-12-8]	8.3×10^{3}		Suntio et al. (1988)	V	9
	4.1×10^{3}		Delgado and Alderete (2003)	C	
	1.2×10^{4}		Hilal et al. (2008)	Q	
	5.1×10^{3}		Abraham et al. (2007)	Q	
	8.9×10^{7}		Delgado and Alderete (2003)	Q	
	1.1×10^{7}		Delgado and Alderete (2003)	Q	
cimetidine	1.0×10^{10}		HSDB (2015)	Q	38
$C_{10}H_{16}N_6S$					
[51481-61-9]					

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
prometryn	8.2×10^{2}		HSDB (2015)	V	
$C_{10}H_{19}N_5S$	2.0×10^{3}		Mackay et al. (2006d)	V	
[7287-19-6]	2.0×10^{3}		Suntio et al. (1988)	V	9
	2.9×10^{6}		Delgado and Alderete (2003)	C	
	7.6×10^{2}		Delgado and Alderete (2003)	C	
	7.5×10^{2}		Hilal et al. (2008)	Q	
	2.5×10^{3}		Abraham et al. (2007)	Q	
	5.1×10^{6}		Delgado and Alderete (2003)	Q	
	1.4×10^{6}		Delgado and Alderete (2003)	Q	
terbutryn	4.7×10^{2}		HSDB (2015)	V	
$C_{10}H_{19}N_5S$	7.0×10^{2}		Mackay et al. (2006d)	V	
[886-50-0]	7.7×10^{2}		Suntio et al. (1988)	V	9
	1.2×10^{6}		Delgado and Alderete (2003)	C	
	8.7×10^{2}		Delgado and Alderete (2003)	C	
	4.5×10^{3}		Hilal et al. (2008)	Q	
	1.6×10^{3}		Abraham et al. (2007)	Q	
	5.1×10^{6}		Delgado and Alderete (2003)	Q	
	1.4×10^{6}		Delgado and Alderete (2003)	Q	
disulfiram $C_{10}H_{20}N_2S_4$ [97-77-8]	1.2×10^{-1}		HSDB (2015)	Q	38
1-naphthalenylthiourea $C_{11}H_{10}N_2S$ [86-88-4]	1.2×10^{3}		HSDB (2015)	Q	38
4,4'-thiobisbenzenamine $C_{12}H_{12}N_2S$ (bis(4-aminophenyl) sulfide) [139-65-1]	2.5×10^{6}		HSDB (2015)	Q	38
dipropetryn	6.0×10^{2}		Hilal et al. (2008)	Q	
$C_{11}H_{19}N_5S$	1.6×10^{3}		Abraham et al. (2007)	Q	
[4147-51-7]	6.5×10^{2}		MacBean (2012a)	?	
dimethametryn	8.2×10^{3}		Hilal et al. (2008)	Q	
$C_{11}H_{21}N_5S$	1.0×10^{3}		Abraham et al. (2007)	Q	
[22936-75-0]					
phenothiazine	3.5×10^{2}		HSDB (2015)	Q	38
$C_{12}H_9NS$	3.5×10^{2}		Zhang et al. (2010)	Q	107, 108
[92-84-2]	6.9×10^{2}		Zhang et al. (2010)	Q	107, 109
	9.7×10^{1}		Zhang et al. (2010)	Q	107, 110
	4.3×10^{2}		Zhang et al. (2010)	Q	107, 111
2,2'-dithiobisbenzothiazole $C_{14}H_8N_2S_4$ (2,2'-dibenzothiazyl disulfide) [120-78-5]	4.2×10^{7}		HSDB (2015)	Q	38
methapyrilene $C_{14}H_{19}N_3S$ [91-80-5]	3.6×10^{1}		HSDB (2015)	V	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
olanzapine $C_{17}H_{20}N_4S$ [132539-06-1]	1.3×10^{9}		HSDB (2015)	Q	38
N-(1,1-dimethylethyl)bis(2-benzothiazolesulfen)amide $C_{18}H_{17}N_3S_4$ [3741-80-8]	2.4×10^{8}		Zhang et al. (2010)	Q	107, 108
	1.7×10^{3}		Zhang et al. (2010)	Q	107, 109
	2.3×10^{3}		Zhang et al. (2010)	Q	107, 110
	3.9×10^{8}		Zhang et al. (2010)	Q	107, 111
taurine $C_2H_7NO_3S$ [107-35-7]	5.8×10^{6}		HSDB (2015)	Q	182
2-amino-5-nitrothiazole $C_3H_3N_3O_2S$ [121-66-4]	1.9×10^{6}		HSDB (2015)	Q	38
N-(aminothioxomethyl)acetamide $C_3H_6N_2OS$ (1-acetyl-2-thiourea) [591-08-2]	3.8×10^{5}		HSDB (2015)	Q	38
acesulfame $C_4H_5NO_4S$ [33665-90-6]	1.0×10^{3}		HSDB (2015)	Q	38
methomyl $C_5H_{10}N_2O_2S$ [16752-77-5]	5.2×10^{5}		HSDB (2015)	V	
	5.3×10^{4}		Mackay et al. (2006d)	V	
	1.5×10^{4}		Suntio et al. (1988)	V	9
4-aminobenzenesulfonic acid $C_6H_7NO_3S$ (sulfanilic acid) [121-57-3]	1.1×10^{7}		HSDB (2015)	Q	182
sulfanilamide $C_6H_8N_2O_2S$ [63-74-1]	6.6×10^{4}		HSDB (2015)	Q	38
nithiazide $C_6H_8N_4O_3S$ [139-94-6]	6.2×10^{9}		HSDB (2015)	Q	38
2-methylbenzenesulfonamide $C_7H_9NO_2S$ (*o*-toluenesulfonamide) [88-19-7]	2.1×10^{1}		HSDB (2015)	Q	38
4-methylbenzenesulfonamide $C_7H_9NO_2S$ (*p*-toluenesulfonamide) [70-55-3]	2.1×10^{1}		HSDB (2015)	Q	38
ethidimuron $C_7H_{12}N_4O_3S_2$ [30043-49-3]	1.4×10^{8}		MacBean (2012a)	?	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
oxamyl	4.2×10^{4}		HSDB (2015)	V	
$C_7H_{13}N_3O_3S$	4.2×10^{4}		Mackay et al. (2006d)	V	
[23135-22-0]	3.8×10^{3}		Suntio et al. (1988)	V	9
aldicarb	6.6×10^{3}		HSDB (2015)	V	
$C_7H_{14}N_2O_2S$	7.9×10^{3}		Mackay et al. (2006d)	V	
[116-06-3]	3.1×10^{3}		Suntio et al. (1988)	V	9
	1.9		Suntio et al. (1988)	C	9
aldicarb sulfone	3.7×10^{3}		MacBean (2012a)	?	
$C_7H_{14}N_2O_4S$					
[1646-88-4]					
butocarboxim	1.7×10^{4}		HSDB (2015)	V	
$C_7H_{14}N_2O_2S$	1.7×10^{4}		MacBean (2012a)	?	
[34681-10-2]					
butoxycarboxim	3.5×10^{6}		HSDB (2015)	V	
$C_7H_{14}N_2O_4S$					
[34681-23-7]					
saccharin	8.2×10^{3}		HSDB (2015)	Q	38
$C_7H_5NO_3S$					
[81-07-2]					
acibenzolar-S-methyl	8.2×10^{1}		HSDB (2015)	V	
$C_8H_6N_2OS_2$					
[135158-54-2]					
quinomethionate	1.6×10^{2}		HSDB (2015)	V	
$C_8H_6N_2OS_2$	1.6×10^{2}		MacBean (2012a)	?	
[2439-01-2]					
nifurthiazole	1.3×10^{12}		HSDB (2015)	Q	38
$C_8H_6N_4O_4S$					
[3570-75-0]					
4-methylbenzenesulfonyl isocyanate	1.7×10^{-1}		Zhang et al. (2010)	Q	107, 108
$C_8H_7NO_3S$	3.2×10^{1}		Zhang et al. (2010)	Q	107, 109
[4083-64-1]	6.7		Zhang et al. (2010)	Q	107, 110
	4.0×10^{4}		Zhang et al. (2010)	Q	107, 111
tinidazole	1.9×10^{5}		HSDB (2015)	Q	38
$C_8H_{13}N_3O_4S$					
[19387-91-8]					
metribuzin	8.2×10^{4}		HSDB (2015)	V	
$C_8H_{14}N_4OS$					
[21087-64-9]					
tricyclazole	3.2×10^{5}		Mackay et al. (2006d)	V	
$C_9H_7N_3S$					
[41814-78-2]					
thidiazuron	3.0×10^{7}		HSDB (2015)	V	
$C_9H_8N_4OS$					
[51707-55-2]					

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
sulfathiazole $C_9H_9N_3O_2S_2$ [72-14-0]	1.7×10^{8}		HSDB (2015)	Q	38
sulfamethizole $C_9H_{10}N_4O_2S_2$ [144-82-1]	3.8×10^{8}		HSDB (2015)	Q	38
ethiozin $C_9H_{16}N_4OS$ [64529-56-2]	2.0×10^{2}		MacBean (2012a)	?	
molinate $C_9H_{17}NOS$ [2212-67-1]	7.7		Watanabe (1993)	M	
	2.2		Sagebiel et al. (1992)	M	9
	1.7	7300	Sagebiel et al. (1992)	M	
	6.9		Mackay et al. (2006d)	V	
	1.1×10^{1}		Sagebiel et al. (1992)	V	9
	1.0×10^{1}		Woodrow et al. (1990)	V	
	7.6		Armbrust (2000)	C	
	7.3		Hilal et al. (2008)	Q	
S-ethyl dipropylthiocarbamate $C_9H_{19}NOS$ (eptam; EPTC) [759-94-4]	5.6×10^{-1}	9100	Reyes-Pérez et al. (2008)	M	
	3.8×10^{-2}	4800	Breiter et al. (1998)	M	
	6.2×10^{-1}		HSDB (2015)	V	
	9.8×10^{-1}		Mackay et al. (2006d)	V	
	4.2×10^{-1}		Breiter et al. (1998)	V	
	9.8×10^{-1}		Suntio et al. (1988)	V	9
	7.4×10^{-1}		Burkhard and Guth (1981)	V	
	8.2×10^{-1}		Hilal et al. (2008)	Q	
		4800	Kühne et al. (2005)	Q	
		4800	Kühne et al. (2005)	?	
thiabendazole $C_{10}H_7N_3S$ [148-79-8]	4.7×10^{5}		HSDB (2015)	V	
	4.7×10^{5}		Mackay et al. (2006d)	V	
benzo[*b*]thiophene-4-ol, methylcarbamate $C_{10}H_9NO_2S$ (mobam) [1079-33-0]	5.8×10^{3}		HSDB (2015)	Q	38
sulfamethoxazole $C_{10}H_{11}N_3O_3S$ [723-46-6]	1.5×10^{7}		HSDB (2015)	Q	38
bentazone $C_{10}H_{12}N_2O_3S$ [25057-89-0]	4.5×10^{3}		HSDB (2015)	V	
buthidazole $C_{10}H_{16}N_4O_2S$ [55511-98-3]	4.8×10^{6}		MacBean (2012a)	?	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
thiodicarb	1.1×10^{1}		HSDB (2015)	V	
$C_{10}H_{18}N_4O_4S_3$	2.3×10^{1}		Mackay et al. (2006d)	V	
[59669-26-0]					
pebulate	4.1×10^{-2}		HSDB (2015)	V	
$C_{10}H_{21}NOS$	3.8×10^{-1}		Mackay et al. (2006d)	V	
[1114-71-2]	8.6×10^{-2}		Suntio et al. (1988)	V	9
	6.4×10^{-1}		Hilal et al. (2008)	Q	
	$>2.3\times10^{10}$		MacBean (2012a)	?	
vernolate	3.2×10^{-1}		HSDB (2015)	V	
$C_{10}H_{21}NOS$	4.9×10^{-1}		Mackay et al. (2006d)	V	
[1929-77-7]	4.9×10^{-1}		Suntio et al. (1988)	V	9
	6.5×10^{-1}		Hilal et al. (2008)	Q	
sulfisoxazole	6.2×10^{6}		HSDB (2015)	Q	38
$C_{11}H_{13}N_3O_3S$					
[127-69-5]					
ethiofencarb	8.2×10^{3}		HSDB (2015)	V	
$C_{11}H_{15}NO_2S$					
[29973-13-5]					
methiocarb	8.3		Mackay et al. (2006d)	V	
$C_{11}H_{15}NO_2S$	8.4×10^{3}		MacBean (2012b)	X	137
[2032-65-7]					
cycloate	1.9		HSDB (2015)	V	
$C_{11}H_{21}NOS$	3.7		Hilal et al. (2008)	Q	
[1134-23-2]					
methoprotryn	3.1×10^{4}		HSDB (2015)	V	
$C_{11}H_{21}N_5OS$	1.5×10^{5}		Hilal et al. (2008)	Q	
[841-06-5]	2.0×10^{5}		Abraham et al. (2007)	Q	
	3.1×10^{4}		MacBean (2012a)	?	
butylate	1.2×10^{-1}		HSDB (2015)	V	
$C_{11}H_{23}NOS$			Mackay et al. (2006d)	V	221
[2008-41-5]	1.8		Suntio et al. (1988)	V	9
	5.8×10^{-1}		Hilal et al. (2008)	Q	
carboxin	3.1×10^{4}		HSDB (2015)	V	
$C_{12}H_{13}NO_2S$	6.4×10^{4}		Mackay et al. (2006d)	V	
[5234-68-4]					
oxycarboxin	9.0×10^{5}		HSDB (2015)	V	
$C_{12}H_{13}NO_4S$	2.8×10^{3}		Mackay et al. (2006d)	V	
[5259-88-1]					
thifensulfuron-methyl	3.4×10^{8}		HSDB (2015)	V	
$C_{12}H_{13}N_5O_6S_2$					
[79277-27-3]					
sulfamethazine	3.2×10^{7}		HSDB (2015)	Q	38
$C_{12}H_{14}N_4O_2S$					
[57-68-1]					

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
thiophanate-methyl $C_{12}H_{14}N_4O_4S_2$ [23564-05-8]	8.2×10^{3} 7.9×10^{2}		HSDB (2015) Mackay et al. (2006d)	V V	
4,4'-oxydi(benzenesulphonohydrazide) $C_{12}H_{14}N_4O_5S_2$ [80-51-3]	7.8×10^{11}		HSDB (2015)	Q	38
albendazole $C_{12}H_{15}N_3O_2S$ [54965-21-8]	1.3×10^{8}		HSDB (2015)	Q	38
oryzalin $C_{12}H_{18}N_4O_6S$ [19044-88-3]	5.2×10^{3} 5.3×10^{3}		HSDB (2015) Mackay et al. (2006d)	V V	
STK366145 $C_{12}H_{19}N_3O_3S$ (N-(2-ethyl(3-methyl-4-nitrosophenyl)amino)ethyl)-methanesulfonamide) [56046-62-9]	9.9×10^{4}		HSDB (2015)	V	
isomethiozin $C_{12}H_{20}N_4OS$ [57052-04-7]	7.9×10^{2}		MacBean (2012a)	?	
isobornyl thiocyanoacetate $C_{13}H_{19}NO_2S$ [115-31-1]	3.8×10^{1}		HSDB (2015)	Q	38
nitralin $C_{13}H_{19}N_3O_6S$ [4726-14-1]	1.4×10^{3} 7.2×10^{-3} 7.2×10^{-3}		HSDB (2015) Mackay et al. (2006d) Suntio et al. (1988)	V V V	 9
bupirimate $C_{13}H_{24}N_4O_3S$ [41483-43-6]	1.0×10^{2}		Mackay et al. (2006d)	V	
timolol $C_{13}H_{24}N_4O_3S$ [26839-75-8]	2.3×10^{11}		HSDB (2015)	Q	38
dithianone $C_{14}H_4N_2O_2S_2$ [3347-22-6]	1.7×10^{5}		HSDB (2015) Mackay et al. (2006d)	V V	 221
N-(cyclohexylthio)phthalimide $C_{14}H_{15}NO_2S$ [17796-82-6]	1.5×10^{2}		HSDB (2015)	Q	38
metsulfuron-methyl $C_{14}H_{15}N_5O_6S$ [74223-64-6]	7.5×10^{10}		HSDB (2015)	V	
rimsulfuron $C_{14}H_{17}N_5O_7S_2$ [122931-48-0]	1.5×10^{4}		HSDB (2015)	V	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
thiophanate $C_{14}H_{18}N_4O_4S_2$ [23564-06-9]	1.9×10^{7}		HSDB (2015)	Q	38
sumatriptan $C_{14}H_{21}N_3O_2S$ [103628-46-2]	2.2×10^{8}		HSDB (2015)	Q	38
sulfometuron methyl $C_{15}H_{16}N_4O_5S$ [74222-97-2]	8.2×10^{12} 1.9×10^{8}		Armbrust (2000) HSDB (2015)	C Q	 38
tribenuron-methyl $C_{15}H_{17}N_5O_6S$ [101200-48-0]	9.7×10^{7}		MacBean (2012b)	X	137
propoxycarbazone $C_{15}H_{18}N_4O_7S$ [145026-81-9]	7.0×10^{11}		HSDB (2015)	Q	38
valdecoxib $C_{16}H_{14}N_2O_3S$ [181695-72-7]	4.5×10^{5}		HSDB (2015)	Q	38
topramezone $C_{16}H_{17}N_3O_5S$ [210631-68-8]	1.0×10^{12}		HSDB (2015)	Q	38
sulfosulfuron $C_{16}H_{18}N_6O_7S_2$ [141776-32-1]	4.3×10^{5}		HSDB (2015)	V	
orthosulfamuron $C_{16}H_{20}N_6O_6S$ [213464-77-8]	1.3×10^{4}		HSDB (2015)	V	
buprofezin $C_{16}H_{23}N_3OS$ [69327-76-0]	2.3		HSDB (2015)	V	
bensulfuron methyl $C_{16}H_{18}N_4O_7S$ [83055-99-6]	7.0×10^{10}		Armbrust (2000)	C	
esomeprazole $C_{17}H_{19}N_3O_3S$ [119141-88-7]	3.3×10^{13}		HSDB (2015)	Q	38
foramsulfuron $C_{17}H_{20}N_6O_7S$ [173159-57-4]	1.7×10^{11}		HSDB (2015)	V	
sethoxydim $C_{17}H_{29}NO_3S$ [74051-80-2]	4.5×10^{5}		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
mesosulfuron-methyl $C_{17}H_{21}N_5O_9S_2$ [208465-21-8]	9.0×10^{10}		HSDB (2015)	V	
rosiglitazone $C_{18}H_{19}N_3O_3S$ [122320-73-4]	5.8×10^{8}		HSDB (2015)	Q	38
rabeprazole $C_{18}H_{21}N_3O_3S$ [117976-89-3]	8.2×10^{11}		HSDB (2015)	Q	38
furathiocarb $C_{18}H_{26}N_2O_5S$ [65907-30-4]	7.6×10^{3}		HSDB (2015)	V	
lincomycin $C_{18}H_{34}N_2O_6S$ [154-21-2]	3.3×10^{17}		HSDB (2015)	Q	38
pioglitazone $C_{19}H_{20}N_2O_3S$ [111025-46-8]	5.8×10^{6}		HSDB (2015)	Q	38
tamsulosin $C_{20}H_{28}N_2O_5S$ [106133-20-4]	2.0×10^{9}		HSDB (2015)	Q	38
sufentanil $C_{22}H_{30}N_2O_2S$ [56030-54-7]	2.4×10^{9}		HSDB (2015)	Q	38
sildenafil $C_{22}H_{30}N_6O_4S$ [139755-83-2]	1.4×10^{15}		HSDB (2015)	Q	38
tirofiban $C_{22}H_{36}N_2O_5S$ [144494-65-5]	1.3×10^{9}		HSDB (2015)	Q	38
vardenafil $C_{23}H_{32}N_6O_4S$ [224785-90-4]	5.2×10^{15}		HSDB (2015)	Q	38
taurocholic acid $C_{26}H_{45}NO_7S$ [81-24-3]	1.9×10^{15}		HSDB (2015)	Q	182
dalfopristin $C_{34}H_{50}N_4O_9S$ [112362-50-2]	2.2×10^{24}		HSDB (2015)	Q	38
C.I. acid green 3 $C_{37}H_{37}N_2O_6S_2$ [4680-78-8]	2.0×10^{23}		HSDB (2015)	Q	182

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
tinopal	1.2×10^{38}		Zhang et al. (2010)	Q	107, 108
$C_{40}H_{40}N_{12}O_8S_2$	1.4×10^{40}		Zhang et al. (2010)	Q	107, 109
[24231-46-7]	4.2×10^{26}		Zhang et al. (2010)	Q	107, 110
	2.2×10^{37}		Zhang et al. (2010)	Q	107, 111
quinupristin	4.9×10^{22}		HSDB (2015)	Q	38
$C_{53}H_{67}N_9O_{10}S$					
[120138-50-3]					
3,3,4,4,4-pentafluorobutane-1-thiol	5.2×10^{-5}		Zhang et al. (2010)	Q	107, 108
$C_4H_5F_5S$	1.4×10^{-3}		Zhang et al. (2010)	Q	107, 109
[68140-18-1]	1.5×10^{-3}		Zhang et al. (2010)	Q	107, 110
	1.2×10^{-5}		Zhang et al. (2010)	Q	107, 111
3,3,4,4,5,5,6,6,6-nonafluoro-1-hexanethiol	1.9×10^{-6}		Zhang et al. (2010)	Q	107, 108
$C_6H_5F_9S$	4.7×10^{-4}		Zhang et al. (2010)	Q	107, 109
[68140-20-5]	3.1×10^{-4}		Zhang et al. (2010)	Q	107, 110
	1.9×10^{-6}		Zhang et al. (2010)	Q	107, 111
3,3,4,4,5,5,7,7,8,8,9,9,10,10,10-pentadecafluoro-1-decanethiol	9.7×10^{-9}		Zhang et al. (2010)	Q	107, 108
$C_{10}H_7F_{15}S$	6.5×10^{-6}		Zhang et al. (2010)	Q	107, 109
[68140-21-6]	8.6×10^{-4}		Zhang et al. (2010)	Q	107, 110
	1.3×10^{-8}		Zhang et al. (2010)	Q	107, 111
3,3,4,4,5,5-hexafluoro-1-(3,3,4,4,5,5-hexafluorohexyldisulfanyl)hexane	1.2×10^{-7}		Zhang et al. (2010)	Q	107, 108
$C_{12}H_{14}F_{12}S_2$	9.0×10^{-6}		Zhang et al. (2010)	Q	107, 109
[118400-71-8]	1.9×10^{-2}		Zhang et al. (2010)	Q	107, 110
	3.5×10^{-7}		Zhang et al. (2010)	Q	107, 111
perfluorobutane sulfonic acid	2.0		Plassmann et al. (2011)	E	
$C_4HF_9O_3S$					
(PFBS)					
[375-73-5]					
perfluorohexane sulfonic acid	5.1×10^{-1}		Plassmann et al. (2011)	E	
$C_6HF_{13}O_3S$					
(PFHxS)					
[355-46-4]					
perfluorooctane sulfonic acid	9.0×10^{-4}		Zhang et al. (2010)	Q	107, 108
$C_8HF_{17}O_3S$	8.6×10^{-3}		Zhang et al. (2010)	Q	107, 109
(PFOS)	1.6×10^{-1}		Zhang et al. (2010)	Q	107, 110
[1763-23-1]	9.9×10^{-3}		Zhang et al. (2010)	Q	107, 111
	1.0×10^{-1}		Arp et al. (2006)	Q	240
	4.6×10^{-3}		Arp et al. (2006)	Q	241
heptadecafluorooctanesulphonyl fluoride	1.5×10^{-7}		HSDB (2015)	Q	38
$C_8F_{18}O_2S$					
(perfluorooctylsulfonyl fluoride)					
[307-35-7]					

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
fluticasone $C_{22}H_{27}F_3O_4S$ [90566-53-3]	4.3×10^{3}		HSDB (2015)	Q	38
flubenzimine $C_{17}H_{10}F_6N_4S$ [37893-02-0]	$>2.3\times10^{10}$		MacBean (2012a)	?	
thiazafluron $C_6H_7F_3N_4OS$ [25366-23-8]	3.2×10^{4}		MacBean (2012a)	?	
undecafluoro-N-methyl-1-pentanesulfonamide $C_6H_4F_{11}NO_2S$ [68298-13-5]	3.5×10^{-4}		Zhang et al. (2010)	Q	107, 108
	4.4×10^{-2}		Zhang et al. (2010)	Q	107, 109
	5.6×10^{-4}		Zhang et al. (2010)	Q	107, 110
	6.2×10^{-1}		Zhang et al. (2010)	Q	107, 111
1,1,2,2,3,3,4,4,4-nonafluoro-N-(2-hydroxyethyl)-N-methylbutane-1-sulfonamide $C_7H_8F_9NO_3S$ [34454-97-2]	1.8×10^{1}		Zhang et al. (2010)	Q	107, 108
	1.1×10^{1}		Zhang et al. (2010)	Q	107, 109
	4.6×10^{-1}		Zhang et al. (2010)	Q	107, 110
	2.7×10^{2}		Zhang et al. (2010)	Q	107, 111
tridecafluoro-N-methyl-1-hexanesulfonamide $C_7H_4F_{13}NO_2S$ [68259-15-4]	6.7×10^{-5}		Zhang et al. (2010)	Q	107, 108
	9.2×10^{-3}		Zhang et al. (2010)	Q	107, 109
	2.5×10^{-4}		Zhang et al. (2010)	Q	107, 110
	1.2×10^{-1}		Zhang et al. (2010)	Q	107, 111
perfluorooctane sulfonamide $C_8H_2F_{17}NO_2S$ (PFOSA) [754-91-6]	5.5×10^{-6}		HSDB (2015)	Q	38
	3.4		Arp et al. (2006)	Q	240
	7.9×10^{-6}		Arp et al. (2006)	Q	241
emtricitabine $C_8H_{10}FN_3O_3S$ [143491-57-0]	9.0×10^{11}		HSDB (2015)	Q	38
N-ethyl-1,1,2,2,3,3,4,4,4-nonafluoro-N-(2-hydroxyethyl)butane-1-sulfonamide $C_8H_{10}F_9NO_3S$ [34449-89-3]	1.3×10^{1}		Zhang et al. (2010)	Q	107, 108
	8.8		Zhang et al. (2010)	Q	107, 109
	1.4×10^{-1}		Zhang et al. (2010)	Q	107, 110
	2.1×10^{2}		Zhang et al. (2010)	Q	107, 111
1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-N-methylheptane-1-sulphonamide $C_8H_4NO_2F_{15}S$ [68259-14-3]	1.3×10^{-5}		Zhang et al. (2010)	Q	107, 108
	1.6×10^{-3}		Zhang et al. (2010)	Q	107, 109
	1.2×10^{-4}		Zhang et al. (2010)	Q	107, 110
	2.4×10^{-2}		Zhang et al. (2010)	Q	107, 111

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1,1,2,2,3,3,4,4,5,5,5-undecafluoro-N-(2-hydroxyethyl)-N-methylpentane-1-sulphonamide	3.4		Zhang et al. (2010)	Q	107, 108
$C_8H_8NO_3F_{11}S$	2.9		Zhang et al. (2010)	Q	107, 109
[68555-74-8]	2.1×10^{-1}		Zhang et al. (2010)	Q	107, 110
	5.6×10^{1}		Zhang et al. (2010)	Q	107, 111
N-(3-(dimethylamino)propyl)-nonafluoro-1-butanesulfonamide	2.1		Zhang et al. (2010)	Q	107, 108
$C_9H_{13}F_9N_2O_2S$	3.1×10^{1}		Zhang et al. (2010)	Q	107, 109
[68555-77-1]	1.1		Zhang et al. (2010)	Q	107, 110
	6.0×10^{2}		Zhang et al. (2010)	Q	107, 111
heptadecafluoro-N-methyloctanesulphonamide	2.4×10^{-6}		Zhang et al. (2010)	Q	107, 108
$C_9H_4F_{17}NO_2S$	2.1×10^{-4}		Zhang et al. (2010)	Q	107, 109
[31506-32-8]	5.2×10^{-5}		Zhang et al. (2010)	Q	107, 110
	5.0×10^{-3}		Zhang et al. (2010)	Q	107, 111
N-ethyl-1,1,2,2,3,3,4,4,5,5,5-undecafluoro-N-(2-hydroxyethyl)-1-pentanesulfonamide	2.5		Zhang et al. (2010)	Q	107, 108
$C_9H_{10}NO_3F_{11}S$	2.3		Zhang et al. (2010)	Q	107, 109
[68555-72-6]	6.0×10^{-2}		Zhang et al. (2010)	Q	107, 110
	4.1×10^{1}		Zhang et al. (2010)	Q	107, 111
1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2-hydroxyethyl)-N-methyl-1-hexanesulfonamide	6.4×10^{-1}		Zhang et al. (2010)	Q	107, 108
$C_9H_8NO_3F_{13}S$	6.0×10^{-1}		Zhang et al. (2010)	Q	107, 109
[68555-75-9]	9.2×10^{-2}		Zhang et al. (2010)	Q	107, 110
	9.9		Zhang et al. (2010)	Q	107, 111
N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2-hydroxyethyl)hexane-1-sulfonamide	4.7×10^{-1}		Zhang et al. (2010)	Q	107, 108
$C_{10}H_{10}F_{13}NO_3S$	4.6×10^{-1}		Zhang et al. (2010)	Q	107, 109
[34455-03-3]	3.1×10^{-2}		Zhang et al. (2010)	Q	107, 110
	8.8		Zhang et al. (2010)	Q	107, 111
2-methyl[(nonafluorobutyl)sulfonyl] aminoethyl acrylate	5.1×10^{-1}		Zhang et al. (2010)	Q	107, 108
$C_{10}H_{10}F_9NO_4S$	5.3×10^{-1}		Zhang et al. (2010)	Q	107, 109
[67584-55-8]	8.2×10^{1}		Zhang et al. (2010)	Q	107, 110
	4.8×10^{1}		Zhang et al. (2010)	Q	107, 111
N-ethyl perfluorooctane sulfonamide	1.8×10^{-6}		HSDB (2015)	Q	38
$C_{10}H_6F_{17}NO_2S$	1.8×10^{-6}		Zhang et al. (2010)	Q	107, 108
(EtFOSA)	1.4×10^{-4}		Zhang et al. (2010)	Q	107, 109
[4151-50-2]	9.5×10^{-6}		Zhang et al. (2010)	Q	107, 110
	3.8×10^{-3}		Zhang et al. (2010)	Q	107, 111
	6.4×10^{-3}		Arp et al. (2006)	Q	240
	7.5×10^{-3}		Arp et al. (2006)	Q	241

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-N-(2-hydroxyethyl)-N-methylheptane-1-sulphonamide	1.2×10^{-1}		Zhang et al. (2010)	Q	107, 108
$C_{10}H_8NO_3F_{15}S$	9.5×10^{-2}		Zhang et al. (2010)	Q	107, 109
[68555-76-0]	4.5×10^{-2}		Zhang et al. (2010)	Q	107, 110
	2.1		Zhang et al. (2010)	Q	107, 111
N-methyl perfluorooctane sulfonamidoethanol	2.3×10^{-2}		Zhang et al. (2010)	Q	107, 108
$C_{11}H_8F_{17}NO_3S$	1.2×10^{-2}		Zhang et al. (2010)	Q	107, 109
(MeFOSE)	1.9×10^{-2}		Zhang et al. (2010)	Q	107, 110
[24448-09-7]	4.3×10^{-1}		Zhang et al. (2010)	Q	107, 111
	4.8×10^{-1}		Arp et al. (2006)	Q	240
	2.1×10^{-3}		Arp et al. (2006)	Q	241
N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-N-(2-hydroxyethyl)-1-heptanesulfonamide	9.0×10^{-2}		Zhang et al. (2010)	Q	107, 108
$C_{11}H_{10}NO_3F_{15}S$	7.2×10^{-2}		Zhang et al. (2010)	Q	107, 109
[68555-73-7]	1.5×10^{-2}		Zhang et al. (2010)	Q	107, 110
	1.8		Zhang et al. (2010)	Q	107, 111
mefluidide $C_{11}H_{13}F_3N_2O_3S$ [53780-34-0]	7.6×10^{5}		HSDB (2015)	Q	38
N-(3-(dimethylamino)propyl)-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonamide	7.7×10^{-2}		Zhang et al. (2010)	Q	107, 108
$C_{11}H_{13}N_2O_2F_{13}S$	1.5		Zhang et al. (2010)	Q	107, 109
[50598-28-2]	2.2×10^{-1}		Zhang et al. (2010)	Q	107, 110
	2.5×10^{1}		Zhang et al. (2010)	Q	107, 111
2-(methyl-(1,1,2,2,3,3,4,4,5,5,5-undecafluoropentylsulfonyl)amino)ethyl prop-2-enoate	9.7×10^{-2}		Zhang et al. (2010)	Q	107, 108
$C_{11}H_{10}F_{11}NO_4S$	2.0×10^{-1}		Zhang et al. (2010)	Q	107, 109
[67584-56-9]	7.5×10^{1}		Zhang et al. (2010)	Q	107, 110
	9.7		Zhang et al. (2010)	Q	107, 111
2-(methyl((nonafluorobutyl)sulphonyl) amino)ethyl methacrylate	3.3×10^{-1}		Zhang et al. (2010)	Q	107, 108
$C_{11}H_{12}F_9NO_4S$	5.0×10^{-1}		Zhang et al. (2010)	Q	107, 109
[67584-59-2]	1.9×10^{-1}		Zhang et al. (2010)	Q	107, 110
	2.9×10^{1}		Zhang et al. (2010)	Q	107, 111
N-(3-(dimethylamino)propyl) pentadecafluoro-1-heptanesulfonamide	1.5×10^{-2}		Zhang et al. (2010)	Q	107, 108
$C_{12}H_{13}F_{15}N_2O_2S$	2.3×10^{-1}		Zhang et al. (2010)	Q	107, 109
[67584-54-7]	1.8×10^{-2}		Zhang et al. (2010)	Q	107, 110
	5.2		Zhang et al. (2010)	Q	107, 111

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
acrylic acid 2-[methyl[(tridecafluorohexyl)sulfonyl] amino]ethyl ester	1.8×10^{-2}		Zhang et al. (2010)	Q	107, 108
$C_{12}H_{10}F_{13}NO_4S$	6.0×10^{-2}		Zhang et al. (2010)	Q	107, 109
[67584-57-0]	3.4×10^{1}		Zhang et al. (2010)	Q	107, 110
	2.0		Zhang et al. (2010)	Q	107, 111
N-ethyl perfluorooctane sulfonamidoethanol	1.7×10^{-2}		Zhang et al. (2010)	Q	107, 108
$C_{12}H_{10}F_{17}NO_3S$	8.6×10^{-3}		Zhang et al. (2010)	Q	107, 109
(EtFOSE)	6.2×10^{-3}		Zhang et al. (2010)	Q	107, 110
[1691-99-2]	3.3×10^{-1}		Zhang et al. (2010)	Q	107, 111
	5.7×10^{-2}		Arp et al. (2006)	Q	240
	1.2×10^{-3}		Arp et al. (2006)	Q	241
florasulam $C_{12}H_8F_3N_5O_3S$ [145701-23-1]	1.7×10^{6}		HSDB (2015)	V	
2-(methyl((pentadecafluoroheptyl) sulphonyl)amino)ethyl acrylate	3.5×10^{-3}		Zhang et al. (2010)	Q	107, 108
$C_{13}H_{10}F_{15}NO_4S$	1.5×10^{-2}		Zhang et al. (2010)	Q	107, 109
[68084-62-8]	9.9		Zhang et al. (2010)	Q	107, 110
	4.2×10^{-1}		Zhang et al. (2010)	Q	107, 111
flazasulfuron $C_{13}H_{12}F_3N_5O_5S$ [104040-78-0]	1.6×10^{6}		HSDB (2015)	Q	38
N-methyl perfluorooctane sulfonamidoethylacrylate	4.4×10^{-2}		Arp et al. (2006)	Q	240
$C_{14}H_{10}F_{17}NO_4S$ (MeFOSEA) [25268-77-3]	2.2×10^{-3}		Arp et al. (2006)	Q	241
pyrasulfotole $C_{14}H_{13}F_3N_2O_4S$ [365400-11-9]	7.0×10^{8}		HSDB (2015)	V	
flufenacet $C_{14}H_{13}F_4N_3O_2S$ [142459-58-3]	1.7×10^{3}		HSDB (2015)	V	
N-butyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(2-hydroxyethyl)-1-octanesulfonamide	9.7×10^{-3}		Zhang et al. (2010)	Q	107, 108
$C_{14}H_{14}F_{17}NO_3S$	4.1×10^{-3}		Zhang et al. (2010)	Q	107, 109
[2263-09-4]	3.8×10^{-2}		Zhang et al. (2010)	Q	107, 110
	2.2×10^{-1}		Zhang et al. (2010)	Q	107, 111

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
ethyl N-ethyl-N-[(heptadecafluorooctyl) sulphonyl]glycinate	1.3×10^{-5}		Zhang et al. (2010)	Q	107, 108
$C_{14}H_{12}NO_4F_{17}S$	1.8×10^{-3}		Zhang et al. (2010)	Q	107, 109
[1869-77-8]	4.3		Zhang et al. (2010)	Q	107, 110
	3.0×10^{-2}		Zhang et al. (2010)	Q	107, 111
2-(((heptadecafluorooctyl)sulfonyl) methylamino)ethyl methacrylate	4.2×10^{-4}		Zhang et al. (2010)	Q	107, 108
$C_{15}H_{12}F_{17}NO_4S$	3.3×10^{-3}		Zhang et al. (2010)	Q	107, 109
[14650-24-9]	2.5		Zhang et al. (2010)	Q	107, 110
	5.4×10^{-2}		Zhang et al. (2010)	Q	107, 111
isoxaflutole $C_{15}H_{12}F_3NO_4S$ [141112-29-0]	5.3×10^{4}		MacBean (2012b)	X	137
primisulfuron-methyl $C_{15}H_{12}F_4N_4O_7S$ [86209-51-0]	7.0×10^{6}		HSDB (2015)	Q	38
penoxsulam $C_{16}H_{14}F_5N_5O_5S$ [219714-96-2]	9.0×10^{12}		HSDB (2015)	V	
pantoprazole $C_{16}H_{15}F_2N_3O_4S$ [102625-70-7]	1.7×10^{14}		HSDB (2015)	Q	38
2-(N-ethylperfluorooctanesulfamido)ethyl methacrylate	3.2×10^{-4}		Zhang et al. (2010)	Q	107, 108
$C_{16}H_{14}F_{17}NO_4S$	3.9×10^{-3}		Zhang et al. (2010)	Q	107, 109
[376-14-7]	1.5		Zhang et al. (2010)	Q	107, 110
	4.1×10^{-2}		Zhang et al. (2010)	Q	107, 111
thiazopyr $C_{16}H_{17}F_5N_2O_2S$ [117718-60-2]	2.1×10^{1}		HSDB (2015)	V	
celecoxib $C_{17}H_{14}F_3N_3O_2S$ [169590-42-5]	1.3×10^{7}		HSDB (2015)	Q	38
2-butyl[(heptadecafluorooctyl)sulfonyl] aminoethyl acrylate	2.9×10^{-4}		Zhang et al. (2010)	Q	107, 108
$C_{17}H_{16}F_{17}NO_4S$	4.1×10^{-3}		Zhang et al. (2010)	Q	107, 109
[383-07-3]	1.8		Zhang et al. (2010)	Q	107, 110
	4.3×10^{-2}		Zhang et al. (2010)	Q	107, 111
thidiazimin $C_{18}H_{17}N_4O_2FS$ [123249-43-4]	3.5×10^{8}		MacBean (2012a)	?	
benthiavalicarb isopropyl $C_{18}H_{24}FN_3O_3S$ [177406-68-7]	1.1×10^{2}		MacBean (2012b)	X	137

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
rosuvastatin $C_{22}H_{28}N_3O_6FS$ [287714-41-4]	2.9×10^{14}		HSDB (2015)	Q	38
trichloromethanesulfenyl chloride CCl_4S [594-42-3]	4.1×10^{-2} 6.9×10^{-4} 9.5×10^{-4} 5.3×10^{-3}		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
1,1,2,2-tetrachloroethanesulfenyl chloride C_2HCl_5S [1185-09-7]	8.8×10^{-2} 3.7×10^{-3} 1.9×10^{-2} 6.7×10^{-2}		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
2-chloroethyl ethyl sulfide C_4H_9ClS [693-07-2]	2.0×10^{-2}		HSDB (2015)	Q	38
2,2'-dichlorodiethylsulfide $(ClCH_2CH_2)_2S$ (mustard gas) [69020-37-7]	3.0×10^{-1} 4.1×10^{-1}		Hine and Mookerjee (1975) Opresko et al. (1998)	V ?	
pentachlorobenzenethiol C_6HCl_5S [133-49-3]	6.6×10^{-2} 8.4×10^{-2} 2.7×10^{-2} 1.3 2.2×10^{-2}		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q Q	38 107, 108 107, 109 107, 110 107, 111
tetrasul $C_{12}H_6Cl_4S$ [2227-13-6]	9.3×10^{-1}		MacBean (2012a)	?	
methanesulfonyl chloride CH_3ClO_2S [124-63-0]	2.2×10^{-1}		HSDB (2015)	Q	38
bis(trichloromethyl)sulfone $C_2Cl_6O_2S$ [3064-70-8]	8.2×10^{2} 8.2×10^{2} 1.2×10^{-2} 3.1×10^{3} 1.0×10^{1}		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q Q	38 107, 108 107, 109 107, 110 107, 111
benzenesulfonyl chloride $C_6H_5ClO_2S$ [98-09-9]	1.1 1.7×10^{1} 6.7 1.6×10^{2}		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
4-methylbenzenesulfonyl chloride $C_7H_7ClO_2S$ [98-59-9]	1.0 1.8×10^{1} 1.2×10^{1} 9.2×10^{1}		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
endosulfan	9.4×10^{-1}		Mackay et al. (2006d)	V	
$C_9H_6Cl_6O_3S$	1.1×10^{2}		Zhang et al. (2010)	Q	107, 108
[115-29-7]	2.4×10^{1}		Zhang et al. (2010)	Q	107, 109
	1.1×10^{2}		Zhang et al. (2010)	Q	107, 110
	2.3×10^{8}		Zhang et al. (2010)	Q	107, 111
	3.1×10^{1}		Hilal et al. (2008)	Q	
α-endosulfan	1.4		Shen and Wania (2005)	L	143
$C_9H_6Cl_6O_3S$	1.4		Shen and Wania (2005)	L	144
(endosulfan I)	1.4		Muir et al. (2004)	L	144
[959-98-8]	1.4		Muir et al. (2004)	L	143
	1.3	4200	Cetin et al. (2006)	M	
	1.4		Altschuh et al. (1999)	M	
	1.5×10^{-1}		Rice et al. (1997b)	M	9
	1.5		Cotham and Bidleman (1989)	V	
	3.4×10^{-1}		Suntio et al. (1988)	V	9
	1.3×10^{-1}	2300	Rice et al. (1997a)	X	295
	9.2×10^{-1}		Suntio et al. (1988)	C	
		3200	Kühne et al. (2005)	Q	
		2300	Kühne et al. (2005)	?	
β-endosulfan	2.5×10^{1}		Shen and Wania (2005)	L	143
$C_9H_6Cl_6O_3S$	2.2×10^{1}		Shen and Wania (2005)	L	144
(endosulfan II)	1.9×10^{1}	3700	Cetin et al. (2006)	M	
[33213-65-9]	2.5		Altschuh et al. (1999)	M	
	1.1		Rice et al. (1997b)	M	9
	1.6×10^{1}		Cotham and Bidleman (1989)	V	
	3.1×10^{1}		Hilal et al. (2008)	Q	
endosulfan sulfate $C_9H_6Cl_6O_4S$ [1031-07-8]	8.2×10^{5}		HSDB (2015)	V	
mcpa-thioethyl $C_{11}H_{13}ClO_2S$ [25319-90-8]	4.5×10^{-1}		Mackay et al. (2006d)	V	
1,1'-sulfonylbis(4-chlorobenzene)	7.0×10^{1}		HSDB (2015)	Q	38
$C_{12}H_8Cl_2O_2S$	7.2×10^{1}		Zhang et al. (2010)	Q	107, 108
[80-07-9]	6.5×10^{3}		Zhang et al. (2010)	Q	107, 109
	5.0×10^{4}		Zhang et al. (2010)	Q	107, 110
	3.1×10^{3}		Zhang et al. (2010)	Q	107, 111
1,2,4-trichloro-5-[(4-chlorophenyl)sulfonyl]benzene $C_{12}H_6Cl_4O_2S$ (tetradifon) [116-29-0]	6.9×10^{3}		HSDB (2015)	V	
ovex $C_{12}H_8Cl_2O_3S$ (chlorfenson) [80-33-1]	6.2×10^{1}		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
sulphenone $C_{12}H_9ClO_2S$ [80-00-2]	5.2×10^{1}		HSDB (2015)	Q	38
aramite $C_{15}H_{23}ClO_4S$ [140-57-8]	5.2×10^{1}		HSDB (2015)	Q	38
6-chloro-2-(6-chloro-4-methyl-3-oxobenzo[*b*]thien-2(3H)-ylidene)-4-methylbenzo[*b*]thiophene-3(2H)-one $C_{18}H_{10}Cl_2O_2S_2$ [2379-74-0]	3.2×10^{7}		Zhang et al. (2010)	Q	107, 108
	1.2×10^{7}		Zhang et al. (2010)	Q	107, 109
	5.4×10^{4}		Zhang et al. (2010)	Q	107, 110
	2.4×10^{6}		Zhang et al. (2010)	Q	107, 111
5-chloro-3-(trichloromethyl)-1,2,4-thiadiazole $C_3Cl_4N_2S$ [5848-93-1]	1.6×10^{1}		Zhang et al. (2010)	Q	107, 108
	1.9×10^{1}		Zhang et al. (2010)	Q	107, 109
	7.3×10^{-1}		Zhang et al. (2010)	Q	107, 110
	4.2×10^{-1}		Zhang et al. (2010)	Q	107, 111
2,4-dichloro-6-(methylthio)-1,3,5-triazine $C_4H_3Cl_2N_3S$ [13705-05-0]	1.3×10^{1}		Zhang et al. (2010)	Q	107, 108
	1.3×10^{1}		Zhang et al. (2010)	Q	107, 109
	9.7×10^{-1}		Zhang et al. (2010)	Q	107, 110
	1.7×10^{1}		Zhang et al. (2010)	Q	107, 111
chlorthiamid $C_7H_5Cl_2NS$ [1918-13-4]	3.5×10^{4}		MacBean (2012a)	?	
(2-chlorophenyl)thiourea $C_7H_7ClN_2S$ [5344-82-1]	$>9.9\times10^{1}$		HSDB (2015)	Q	216
2-chloroallyl-N,N-diethyldithiocarbamate $C_8H_{14}ClNS_2$ [95-06-7]	1.5		HSDB (2015)	V	
	2.1×10^{1}		Hilal et al. (2008)	Q	
thiacloprid $C_{10}H_9ClN_4S$ [111988-49-9]	9.0×10^{8}		HSDB (2015)	V	
chloromethiuron $C_{10}H_{13}N_2ClS$ [28217-97-2]	2.0×10^{5}		MacBean (2012a)	?	
etridiazole $C_5H_5Cl_3N_2OS$ [2593-15-9]	3.3×10^{-1}		HSDB (2015)	V	
	1.6×10^{1}		Mackay et al. (2006d)	V	
4-chloro-3-nitrobenzenesulfonamide $C_6H_5ClN_2O_4S$ [97-09-6]	8.2×10^{3}		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
clothianidin $C_6H_8ClN_5O_2S$ [210880-92-5]	3.4×10^{10}		MacBean (2012b)	X	137
chlobenthiazone C_8H_6NOClS [63755-05-5]	1.3		MacBean (2012a)	?	
prothiocarb hydrochloride $C_8H_{19}ClN_2OS$ [19622-19-6]	2.5×10^{9}		MacBean (2012a)	?	
thicyofen $C_8H_5N_2OClS_2$ [116170-30-0]	$>2.3\times10^{10}$		MacBean (2012a)	?	
thiamethoxam $C_8H_{10}ClN_5O_3S$ [153719-23-4]	2.1×10^{9}		HSDB (2015)	V	
4-amino-3,5-dichloro-N-ethyl-2-methylbenzenesulfonamide $C_9H_{12}Cl_2N_2O_2S$ [151574-12-8]	3.8×10^{4} 1.1×10^{4} 1.2×10^{6} 1.5×10^{7}		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
dichlofluanid $C_9H_{11}Cl_2FN_2O_2S_2$ [1085-98-9]	1.9×10^{2} 2.5×10^{4} 1.5×10^{1}		Mackay et al. (2006d) Siebers and Mattusch (1996) HSDB (2015)	V V Q	 9 38
captan $C_9H_8Cl_3NO_2S$ [133-06-2]	1.4×10^{3} 1.5×10^{3} 1.7		HSDB (2015) Mackay et al. (2006d) Suntio et al. (1988)	V V V	 9
folpet $C_9H_4Cl_3NO_2S$ [133-07-3]	1.3×10^{2} 2.6		HSDB (2015) Mackay et al. (2006d)	V V	
captafol $C_{10}H_9Cl_4NO_2S$ (difolatan) [2425-06-1]	3.7×10^{3}		HSDB (2015)	V	
diallate $C_{10}H_{17}Cl_2NOS$ (avadex) [2303-16-4]	2.6 9.3 4.0 2.6		HSDB (2015) Mackay et al. (2006d) Suntio et al. (1988) MacBean (2012a)	V V V ?	 9
triallate $C_{10}H_{16}Cl_3NOS$ [2303-17-5]	8.2×10^{-1} 8.8×10^{-1} 9.8×10^{-1}		HSDB (2015) Mackay et al. (2006d) Suntio et al. (1988)	V V V	 9
tolylfluanid $C_{10}H_{13}Cl_2FN_2O_2S_2$ [731-27-1]	1.3×10^{1} 1.6×10^{2}		HSDB (2015) Mackay et al. (2006d)	V V	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
S-(4-chlorobenzyl) diethylthiocarbamate	1.9×10^{1}		Watanabe (1993)	M	
$C_{12}H_{16}ClNOS$	4.9		Kawamoto and Urano (1989)	M	
(thiobencarb)	3.7×10^{1}		HSDB (2015)	V	
[28249-77-6]	5.8×10^{1}		Woodrow et al. (1990)	V	9
	3.7×10^{1}		Armbrust (2000)	C	
			Mackay et al. (2006d)	W	296
furosemide $C_{12}H_{11}ClN_2O_5S$ [54-31-9]	2.5×10^{10}		HSDB (2015)	Q	38
chlorsulfuron	3.2×10^{4}		Mackay et al. (2006d)	V	
$C_{12}H_{12}ClN_5O_4S$	1.5×10^{5}		Armbrust (2000)	C	
[64902-72-3]					
phosalone $C_{12}H_{15}ClNO_4S_2$ [2310-17-0]	2.5×10^{1}		HSDB (2015)	Q	38
dimethenamid $C_{12}H_{18}ClNO_2S$ [87674-68-8]	4.5×10^{2}		Hilal et al. (2008)	Q	
dimethenamid-p $C_{12}H_{18}ClNO_2S$ [163515-14-8]	2.1×10^{3}		MacBean (2012b)	X	137
cyazofamid $C_{13}H_{13}ClN_4O_2S$ [120116-88-3]	2.5×10^{1}		HSDB (2015)	V	
prothioconazole $C_{14}H_{15}Cl_2N_3OS$ [178928-70-6]	2.2×10^{4}		HSDB (2015)	V	
chlorimuron-ethyl $C_{15}H_{15}ClN_4O_6S$ [90982-32-4]	5.5×10^{9}		HSDB (2015)	V	
clopidogrel $C_{16}H_{16}ClNO_2S$ [113665-84-2]	4.5×10^{3}		HSDB (2015)	Q	38
hexythiazox $C_{17}H_{21}N_2O_2ClS$ [78587-05-0]	4.2×10^{2}		HSDB (2015)	V	
clethodim $C_{17}H_{26}ClNO_3S$ [99129-21-2]	8.2×10^{5}		HSDB (2015)	Q	38
clindamycin $C_{18}H_{33}N_2O_5ClS$ [18323-44-9]	3.4×10^{16}		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
vismodegib $C_{19}H_{14}Cl_2N_2O_3S$ [879085-55-9]	6.2×10^{11}		HSDB (2015)	Q	38
pyridaben $C_{19}H_{25}ClN_2OS$ [96489-71-3]	2.1×10^{-1}		HSDB (2015)	V	
tembotrione $C_{17}H_{16}ClF_3O_6S$ [335104-84-2]	5.8×10^{9}		HSDB (2015)	V	
fluothiuron $C_{10}H_{10}Cl_2F_2N_2OS$ [33439-45-1]	$>2.3\times10^{10}$		MacBean (2012a)	?	
sulfentrazone $C_{11}H_{10}Cl_2F_2N_4O_3S$ [122836-35-5]	1.5×10^{7}		HSDB (2015)	V	
flurazole $C_{12}H_7NO_2ClF_3S$ [72850-64-7]	4.0×10^{1}		MacBean (2012a)	?	
fipronil $C_{12}H_4Cl_2F_6N_4OS$ [120068-37-3]	1.2×10^{4}		HSDB (2015)	V	
fluthiacet-methyl $C_{15}H_{15}ClFN_3O_3S_2$ [117337-19-6]	4.7×10^{3}		HSDB (2015)	V	
vemurafenib $C_{23}H_{18}ClF_2N_3O_3S$ [918504-65-1]	8.2×10^{11}		HSDB (2015)	Q	38
tetrabromobisphenol S $C_{12}H_6Br_4O_4S$ [39635-79-5]	1.5×10^{11} 9.7×10^{5} 5.8×10^{6} 1.2×10^{7}		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
1,3-dibromo-5-[3,5-dibromo-4-(2,3-dibromopropoxy)benzenesulfonyl]-2-(2,3-dibromopropoxy)benzene $C_{18}H_{14}Br_8O_4S$ [42757-55-1]	8.2×10^{8} 5.2×10^{8} 1.8×10^{11} 6.4×10^{8}		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
bromphenol blue $C_{19}H_{10}Br_4O_5S$ [115-39-9]	1.9×10^{13} 5.1×10^{5} 9.2×10^{9} 5.3×10^{10}		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
bromcresol green $C_{21}H_{14}Br_4O_5S$ [76-60-8]	1.5×10^{13} 1.0×10^{6} 1.8×10^{9} 1.6×10^{10}		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
bromocresol purple $C_{21}H_{16}Br_2O_5S$ [115-40-2]	9.9×10^{12}		HSDB (2015)	Q	38
difethialone $C_{31}H_{23}BrO_2S$ [104653-34-1]	9.9		HSDB (2015)	V	
amisulbrom $C_{13}H_{13}BrFN_5O_4S_2$ [348635-87-0]	4.7×10^{1}		MacBean (2012b)	X	137
amical 48 $C_8H_8I_2O_2S$ (diiodomethyl *p*-tolyl sulfone) [20018-09-1]	1.3×10^{3}		HSDB (2015)	Q	38
flubendiamide $C_{23}H_{22}F_7IN_2O_4S$ [272451-65-7]	4.5×10^{-2}		HSDB (2015)	V	
Organic species with phosphorus (P)					
Phosphorus (C, H, O, N, Cl, Br, S, P)					
9-icosyl-9- phosphabicyclo[4.2.1]nonane $C_{28}H_{55}P$ [13886-99-2]	3.1×10^{-5} 3.1×10^{-3} 2.2×10^{-2} 8.0×10^{-6}	Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
triphenylphosphine $C_{18}H_{15}P$ [603-35-0]	4.3×10^{2} 9.5×10^{-3} 1.3×10^{1} 4.8	Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
phosphoric acid, trimethyl ester $C_3H_9O_4P$ (trimethyl phosphate) [512-56-1]	1.4×10^{3}	Wolfenden and Williams (1983)	M	9
trimethyl phosphite $C_3H_9O_3P$ [121-45-9]	9.0×10^{-1}	HSDB (2015)	Q	38
dimethyl methylphosphonate $C_3H_9O_3P$ [756-79-6]	7.6	HSDB (2015)	Q	38
diethyl hydrogen phosphite $C_4H_{11}O_3P$ [762-04-9]	1.7	HSDB (2015)	Q	38
triethylphosphate $C_6H_{15}O_4P$ [78-40-0]	2.7×10^{2} 1.4×10^{2}	Wolfenden and Williams (1983) Abraham et al. (1994a)	M R	9

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
mevinphos			Mackay et al. (2006d)	V	221
$C_7H_{13}O_6P$	2.4×10^5		Sanders and Seiber (1983)	V	31
[7786-34-7]	2.5×10^3		HSDB (2015)	Q	38
diisopropyl methanephosphonate $C_7H_{17}O_3P$ [1445-75-6]	2.2×10^{-1}		HSDB (2015)	V	
dibutyl hydrogen phosphite $C_8H_{19}O_3P$ [1809-19-4]	5.5×10^{-1}		HSDB (2015)	Q	38
dibutyl phosphate $C_8H_{19}O_4P$ [107-66-4]	2.3×10^3		HSDB (2015)	Q	38
tetraethyl pyrophosphate $C_8H_{20}O_7P_2$ [107-49-3]	4.5×10^4		HSDB (2015)	V	
tripropyl phosphate $C_9H_{21}O_4P$ [513-08-6]	1.5×10^1		Wolfenden and Williams (1983)	M	9
triallyl phosphate $C_9H_{15}O_4P$ [1623-19-4]	1.8×10^1		HSDB (2015)	Q	38
tributylphosphate	7.0		HSDB (2015)	V	
$C_{12}H_{27}O_4P$	1.6×10^1		Glotfelty et al. (1987)	V	
[126-73-8]	4.8		Yoshida et al. (1983)	V	
hexaethyl tetraphosphate $C_{12}H_{30}O_{13}P_4$ [757-58-4]	3.0×10^{11}		HSDB (2015)	Q	38
crotoxyphos	1.7×10^3		HSDB (2015)	V	
$C_{14}H_{19}O_6P$	1.7×10^3		Mackay et al. (2006d)	V	
[7700-17-6]	1.7×10^3		MacBean (2012a)	?	
phosphoric acid, dibutyl phenyl ester $C_{14}H_{23}O_4P$ [2528-36-1]	2.0×10^1		HSDB (2015)	Q	38
bis(2-ethylhexyl) hydrogen phosphite $C_{16}H_{35}O_3P$ [3658-48-8]	5.8×10^{-2}		HSDB (2015)	Q	38
bis(2-ethylhexyl)hydrogen phosphate $C_{16}H_{35}O_4P$ (bis(2-ethylhexyl) phosphate) [298-07-7]	2.4×10^2		HSDB (2015)	Q	38
triphenyl phosphate $C_{18}H_{15}O_4P$ [115-86-6]	3.0		HSDB (2015)	V	

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
tris(2-butoxyethyl) phosphate $C_{18}H_{39}O_7P$ [78-51-3]	8.2×10^{5}		HSDB (2015)	Q	38
p-cresyl diphenyl phosphate $C_{19}H_{17}O_4P$ [78-31-9]	9.9×10^{1}		HSDB (2015)	Q	182
triphenylphosphine oxide $C_{18}H_{15}OP$ [791-28-6]	1.9×10^{4} 4.6×10^{4} 1.1×10^{7} 2.5×10^{-1}		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
phosphorous acid, triphenyl ester $C_{18}H_{15}O_3P$ [101-02-0]	1.8×10^{1} 4.4×10^{-2} 1.5×10^{2} 7.0×10^{4}		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
trihexylphosphine oxide $C_{18}H_{39}OP$ [3084-48-8]	4.5×10^{-3} 2.9×10^{-3} 5.8×10^{4} 3.5×10^{-7}		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
phosphoric acid, octyl diphenyl ester $C_{20}H_{27}O_4P$ [115-88-8]	3.9×10^{1}		HSDB (2015)	Q	38
octyldihexylphosphine oxide $C_{20}H_{43}OP$ [31160-64-2]	2.5×10^{-3} 3.1×10^{-3} 5.3×10^{4} 2.3×10^{-7}		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
tris(methylphenyl) phosphate $C_{21}H_{21}O_4P$ (tricresyl phosphate) [1330-78-5]	1.2×10^{1}		HSDB (2015)	V	
phosphoric acid, (1-methylethyl)phenyl diphenyl ester $C_{21}H_{21}O_4P$ [28108-99-8]	1.3×10^{2}		HSDB (2015)	Q	38
phosphoric acid, tris(2-methylphenyl) ester $C_{21}H_{21}O_4P$ (tri-*o*-cresyl phosphate) [78-30-8]	5.2		HSDB (2015)	Q	182
phosphoric acid, tris(3-methylphenyl) ester $C_{21}H_{21}O_4P$ (tri-*m*-cresyl phosphate) [563-04-2]	9.9		HSDB (2015)	Q	182

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
phosphoric acid, tris(4-methylphenyl) ester $C_{21}H_{21}O_4P$ (tri-*p*-cresyl phosphate) [78-32-0]	1.8×10^{2}		HSDB (2015)	Q	182
(4-*tert*-butylphenyl) diphenyl phosphate $C_{22}H_{23}O_4P$ [56803-37-3]	4.5×10^{1}		HSDB (2015)	V	
isodecyl diphenyl phosphate $C_{22}H_{31}O_4P$ [29761-21-5]	2.3×10^{1}		HSDB (2015)	Q	38
dioctylhexylphosphine oxide $C_{22}H_{47}OP$ [31160-66-4]	1.4×10^{-3} 3.4×10^{-3} 4.0×10^{4} 1.4×10^{-7}		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
tris(2,4-dimethylphenyl)phosphate $C_{24}H_{27}O_4P$ [3862-12-2]	1.4×10^{2}		HSDB (2015)	Q	38
tris(2,5-dimethylphenyl)phosphate $C_{24}H_{27}O_4P$ [19074-59-0]	1.4×10^{2}		HSDB (2015)	Q	38
tris(2,6-dimethylphenyl)phosphate $C_{24}H_{27}O_4P$ [121-06-2]	1.4×10^{2}		HSDB (2015)	Q	38
tris(3,4-dimethylphenyl)phosphate $C_{24}H_{27}O_4P$ [3862-11-1]	1.4×10^{2}		HSDB (2015)	Q	38
tris(3,5-dimethylphenyl)phosphate $C_{24}H_{27}O_4P$ [25653-16-1]	1.4×10^{2}		HSDB (2015)	Q	38
tris(4-isopropylphenyl) phosphate $C_{27}H_{33}O_4P$ [26967-76-0]	3.4×10^{1}		HSDB (2015)	Q	38
trioctylphosphine oxide $C_{24}H_{51}OP$ [78-50-2]	8.2×10^{-4} 3.7×10^{-3} 3.4×10^{4} 9.2×10^{-8}		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
bis(2-ethylhexyl)-2-ethylhexyl phosphonate $C_{24}H_{51}O_3P$ [126-63-6]	2.1×10^{-2} 6.2×10^{-6} 5.4×10^{4} 7.7×10^{-5}		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
didodecyl hydrogen phosphate $C_{24}H_{51}O_4P$ [7057-92-3]	2.5×10^{1}		HSDB (2015)	Q	38
phosphoric acid, tris(2-ethylhexyl) ester $C_{24}H_{51}O_4P$ (trioctyl phosphate) [78-42-2]	1.2×10^{2}		HSDB (2015)	V	
diisodecylphenyl phosphite $C_{26}H_{47}O_3P$ [25550-98-5]	1.9 2.5 1.6×10^{3} 3.9×10^{-3}		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
fyrolflex rdp $C_{30}H_{24}O_8P_2$ [57583-54-7]	3.4×10^{7} 1.4×10^{-2} 2.6×10^{8} 3.9×10^{16}		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
tris(4-*tert*-butylphenyl) phosphate $C_{30}H_{39}O_4P$ [78-33-1]	1.4×10^{1} 8.4×10^{-4} 1.6×10^{3} 3.5×10^{1}		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
tris-(2,4-di-*tert*-butylphenyl) phosphite $C_{42}H_{63}O_3P$ [31570-04-4]	6.1×10^{-2} 6.5×10^{-5} 1.5×10^{2} 5.8		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
glyphosate $C_3H_8NO_5P$ [1071-83-6]	1.8×10^{6}		Mackay et al. (2006d)	V	
krenite $C_3H_{11}N_2O_4P$ (fosamine-ammonium) [25954-13-6]	2.0×10^{7}		HSDB (2015)	V	
tabun $C_5H_{11}N_2O_2P$ [77-81-6]	6.6×10^{1} 6.5×10^{1}		HSDB (2015) Opresko et al. (1998)	V ?	
glufosinate-ammonium $C_5H_{15}N_2O_4P$ [77182-82-2]	2.2×10^{8}		MacBean (2012b)	X	137
monocrotophos $C_7H_{14}NO_5P$ [6923-22-4]	1.5×10^{7}		HSDB (2015) Mackay et al. (2006d)	V V	 221
dicrotophos $C_8H_{16}NO_5P$ [141-66-2]	2.0×10^{5}		Mackay et al. (2006d)	V	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
octamethyldiphosphoramide $C_8H_{24}N_4O_3P_2$ (schradan) [152-16-9]	1.6×10^{11}		HSDB (2015)	Q	38
fyrol 6 $C_9H_{22}NO_5P$ (diethyl ((diethanolamino)methyl) phosphonate) [2781-11-5]	6.2×10^{1}		HSDB (2015)	V	
diethyl 4-nitrophenyl phosphate $C_{10}H_{14}NO_6P$ (paraoxon) [311-45-5]	1.6×10^{3} 1.5×10^{4}		Glotfelty et al. (1987) HSDB (2015)	V Q	 38
dimethyl 4-nitrophenyl phosphate $C_8H_{10}NO_6P$ (methyl paraoxon) [950-35-6]	$>1.1\times10^{4}$		Woodrow et al. (1990)	V	
buminafos $C_{18}H_{38}NO_3P$ [51249-05-9]	5.0		MacBean (2012a)	?	9
methylphosphonyldifluoride CH_3F_2OP [676-99-3]	4.5×10^{-1}		HSDB (2015)	Q	38
sarin $C_4H_{10}FO_2P$ [107-44-8]	1.7×10^{1} 1.8×10^{1}		HSDB (2015) Opresko et al. (1998)	V ?	
dimefox $C_4H_{12}FN_2OP$ [115-26-4]	4.5×10^{2}		HSDB (2015)	V	
isoflurophate $C_6H_{14}FO_3P$ (diisopropyl fluorophosphate) [55-91-4]	3.1		HSDB (2015)	Q	38
cyclohexyl methylphosphonofluoridate $C_7H_{14}FO_2P$ (cyclosarin) [329-99-7]	3.5		HSDB (2015)	V	
soman $C_7H_{16}FO_2P$ [96-64-0]	2.1 2.2		HSDB (2015) Opresko et al. (1998)	V ?	
mipafox $C_6H_{16}FN_2OP$ [371-86-8]	3.3×10^{3}		HSDB (2015)	V	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
phenylphosphonous dichloride	6.5×10^{-1}		Zhang et al. (2010)	Q	107, 108
$C_6H_5Cl_2P$	2.5×10^{-3}		Zhang et al. (2010)	Q	107, 109
[644-97-3]	6.2×10^{-2}		Zhang et al. (2010)	Q	107, 110
	3.3×10^{-2}		Zhang et al. (2010)	Q	107, 111
chlorphonium chloride $C_{19}H_{32}Cl_3P$ [115-78-6]	2.8×10^{7}		MacBean (2012a)	?	9
triclofos $C_2H_4Cl_3O_4P$ [306-52-5]	7.0×10^{7}		HSDB (2015)	Q	38
(2-chloroethyl)-phosphonic acid $C_2H_6ClO_3P$ (ethephon) [16672-87-0]	6.9×10^{7}		HSDB (2015)	V	
1-hydroxy-2,2,2-trichloroethylphosphonic acid, dimethyl ester	$>8.1\times10^{2}$		Kawamoto and Urano (1989)	M	
$C_4H_8Cl_3O_4P$	5.8×10^{5}		HSDB (2015)	V	
(trichlorfon)	6.0×10^{5}		Mackay et al. (2006d)	V	
[52-68-6]	5.9×10^{5}		Suntio et al. (1988)	V	9
dimethyl-2,2-dichlorovinyl phosphate	3.9×10^{1}	11000	Gautier et al. (2003)	M	
$C_4H_7Cl_2O_4P$	8.1×10^{-2}		Kawamoto and Urano (1989)	M	
(dichlorvos)	1.7×10^{1}		HSDB (2015)	V	
[62-73-7]	5.2		Mackay et al. (2006d)	V	
	5.3		Suntio et al. (1988)	V	9
tris(2-chloroethyl) phosphate $C_6H_{12}Cl_3O_4P$ [115-96-8]	3.0		HSDB (2015)	V	
cyclophosphamide $C_7H_{15}Cl_2N_2O_2P$ [50-18-0]	7.0×10^{5}		HSDB (2015)	Q	38
ifosfamide $C_7H_{15}Cl_2N_2O_2P$ [3778-73-2]	7.0×10^{5}		HSDB (2015)	Q	38
butonate $C_8H_{14}Cl_3O_5P$ [126-22-7]	3.3×10^{4}		HSDB (2015)	Q	38
phosphoric acid, 7-chlorobicyclo[3.2.0]hepta-2,6-dien-6-yl dimethyl ester	5.8×10^{1}		HSDB (2015)	V	
$C_9H_{12}ClO_4P$ (heptenophos) [23560-59-0]	4.3×10^{3}		MacBean (2012a)	?	
tris(2,3-dichloropropyl) phosphate $C_9H_{15}Cl_6O_4P$ [78-43-3]	3.8×10^{3}		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
tris(1,3-dichloroisopropyl)phosphate	3.8×10^{3}		HSDB (2015)	Q	38
$C_9H_{15}Cl_6O_4P$	3.8×10^{3}		Zhang et al. (2010)	Q	107, 108
[13674-87-8]	4.1×10^{-2}		Zhang et al. (2010)	Q	107, 109
	1.3×10^{7}		Zhang et al. (2010)	Q	107, 110
	3.0		Zhang et al. (2010)	Q	107, 111
tris(2-chloropropyl) phosphate	1.6×10^{2}		Zhang et al. (2010)	Q	107, 108
$C_9H_{18}Cl_3O_4P$	1.4×10^{-3}		Zhang et al. (2010)	Q	107, 109
[6145-73-9]	6.7×10^{2}		Zhang et al. (2010)	Q	107, 110
	3.8×10^{-1}		Zhang et al. (2010)	Q	107, 111
tri-(2-chloroisopropyl)phosphate	1.6×10^{2}		HSDB (2015)	Q	38
$C_9H_{18}Cl_3O_4P$	1.6×10^{2}		Zhang et al. (2010)	Q	107, 108
[13674-84-5]	1.9×10^{-4}		Zhang et al. (2010)	Q	107, 109
	3.6×10^{4}		Zhang et al. (2010)	Q	107, 110
	3.8×10^{-1}		Zhang et al. (2010)	Q	107, 111
bis(2-chloropropyl) 2-chloro-1-methylethyl phosphate	1.6×10^{2}		Zhang et al. (2010)	Q	107, 108
$C_9H_{18}Cl_3O_4P$	7.2×10^{-4}		Zhang et al. (2010)	Q	107, 109
[76649-15-5]	5.6×10^{3}		Zhang et al. (2010)	Q	107, 110
	3.8×10^{-1}		Zhang et al. (2010)	Q	107, 111
tetrachlorvinphos	5.5×10^{3}		HSDB (2015)	V	
$C_{10}H_9Cl_4O_4P$	5.4×10^{3}		MacBean (2012a)	?	
[22248-79-9]					
chlorfenvinphos	3.4×10^{2}		HSDB (2015)	V	
$C_{12}H_{14}Cl_3O_4P$	3.4×10^{3}		Mackay et al. (2006d)	V	
(clofenvinfos)	3.6×10^{3}		Suntio et al. (1988)	V	9
[470-90-6]					
crufomate	3.9×10^{3}		HSDB (2015)	Q	38
$C_{12}H_{19}ClNO_3P$					
(ruelene)					
[299-86-5]					
phosdiphen	2.6×10^{-2}		MacBean (2012a)	?	
$C_{14}H_{11}O_4Cl_4P$					
[36519-00-3]					
phosphamidon	2.8		Mackay et al. (2006d)	V	
$C_{10}H_{19}ClNO_5P$	2.8		Suntio et al. (1988)	V	9
[13171-21-6]	6.6×10^{6}		HSDB (2015)	Q	38
tris(2,3-dibromo-1-propyl) phosphate	3.8×10^{-1}		HSDB (2015)	V	
$C_9H_{15}Br_6O_4P$					
[126-72-7]					
naled	1.5×10^{-1}		HSDB (2015)	V	
$C_4H_7Br_2Cl_2O_4P$					
[300-76-5]					

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
2-bromo-1,1-dimethylethyl 2-bromoethyl 2-chloroethyl phosphate	1.5×10^{3}		Zhang et al. (2010)	Q	107, 108
$C_9H_{18}Br_2ClO_4P$	1.3×10^{-2}		Zhang et al. (2010)	Q	107, 109
[125997-20-8]	4.4×10^{3}		Zhang et al. (2010)	Q	107, 110
	8.2×10^{-1}		Zhang et al. (2010)	Q	107, 111
leptophos	3.7		Mackay and Shiu (1981)	L	
$C_{13}H_{10}O_3BrCl_2P$	3.7		HSDB (2015)	V	
[21609-90-5]	4.0		Mackay et al. (2006d)	V	
	4.0		Suntio et al. (1988)	V	9
	2.6×10^{1}		Hilal et al. (2008)	Q	
tributyl phosphorotrithioite	4.3×10^{-1}		HSDB (2015)	Q	38
$C_{12}H_{27}PS_3$	4.3×10^{-1}		Zhang et al. (2010)	Q	107, 108
[150-50-5]	6.0×10^{-4}		Zhang et al. (2010)	Q	107, 109
	1.5×10^{-1}		Zhang et al. (2010)	Q	107, 110
	5.1×10^{-2}		Zhang et al. (2010)	Q	107, 111
bis(2,6,6-trimethylbicyclo[3.1.1]hept-2-enyl) bis(2,6,6-trimethylbicyclo[3.1.1]hept-2-enyl)thiodiphosphonate	8.2×10^{-5}		Zhang et al. (2010)	Q	107, 108
$C_{40}H_{60}P_2S_5$	5.8×10^{4}		Zhang et al. (2010)	Q	107, 109
[68400-79-3]	1.9×10^{5}		Zhang et al. (2010)	Q	107, 110
	1.6×10^{2}		Zhang et al. (2010)	Q	107, 111
thiometon	3.5×10^{-1}		HSDB (2015)	V	
$C_6H_{15}O_2PS_3$					
[640-15-3]					
demeton-S-methyl sulfone	$<2.3\times10^{10}$		MacBean (2012a)	?	
$C_6H_{15}O_5PS_2$					
[17040-19-6]					
oxydemeton-methyl	6.2×10^{7}		HSDB (2015)	Q	38
$C_6H_{15}O_4PS_2$					
[301-12-2]					
demeton-S-methyl	3.7×10^{2}		HSDB (2015)	V	
$C_6H_{15}O_3PS_2$	3.6×10^{2}		Mackay et al. (2006d)	V	
[919-86-8]					
methacrifos	1.0×10^{1}		MacBean (2012a)	?	
$C_7H_{13}O_5PS$					
[62610-77-9]					
phorate	2.1		HSDB (2015)	V	
$C_7H_{17}O_2PS_3$	9.9×10^{-1}		Mackay et al. (2006d)	V	
[298-02-2]	1.5		Suntio et al. (1988)	V	9
salithion	4.7×10^{-1}		MacBean (2012a)	?	
$C_8H_9O_3PS$					
[3811-49-2]					
acetoxon	1.3×10^{4}		HSDB (2015)	Q	38
$C_8H_{17}O_5PS$					
[2425-25-4]					

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
demeton-O $C_8H_{19}O_3PS_2$ [298-03-3]	6.1		MacBean (2012a)	?	9
demeton-S $C_8H_{19}O_3PS_2$ (isosystox) [126-75-0]	2.0×10^{2}		HSDB (2015)	V	
sulfotep $C_8H_{20}O_5P_2S_2$ [3689-24-5]	2.2 3.4		HSDB (2015) Mackay et al. (2006d)	V V	
tetrakis(hydroxymethyl) phosphonium sulfate $C_8H_{24}O_{12}P_2S$ [55566-30-8]	5.8×10^{17}		HSDB (2015)	Q	38
ethoprophos $C_8H_{19}O_2PS_2$ [13194-48-4]	6.1×10^{1} 6.1×10^{1}		HSDB (2015) Mackay et al. (2006d)	V V	
disulfoton $C_8H_{19}O_2PS_3$ [298-04-4]	1.1×10^{1} 4.5 4.5 4.5		Muir et al. (2004) HSDB (2015) Mackay et al. (2006d) Suntio et al. (1988)	L V V V	144 9
endothion $C_9H_{13}O_6PS$ [2778-04-3]	1.5×10^{6}		HSDB (2015)	Q	38
terbufos $C_9H_{21}O_2PS_3$ [13071-79-9]	4.1×10^{-1} 4.1×10^{-1}		HSDB (2015) Mackay et al. (2006d)	V V	
ethion $C_9H_{22}O_4P_2S_4$ [563-12-2]	2.6×10^{1} 3.1×10^{1} 3.1×10^{1}		HSDB (2015) Mackay et al. (2006d) Suntio et al. (1988)	V V V	 9
fonofos $C_{10}H_{15}OPS_2$ [944-22-9]	1.4 1.4		HSDB (2015) Mackay et al. (2006d)	V V	
fenthion $C_{10}H_{15}O_3PS_2$ [55-38-9]	6.8 4.5×10^{1} 4.5×10^{1}		HSDB (2015) Mackay et al. (2006d) Suntio et al. (1988)	V V V	 9
malathion $C_{10}H_{19}O_6PS_2$ [121-75-5]	6.7×10^{2} 2.0×10^{3} 4.4×10^{2} 2.5×10^{2} 4.3×10^{2} 1.7×10^{2} 7.3×10^{3} 2.6×10^{1} 1.5×10^{2}		Watanabe (1993) Fendinger and Glotfelty (1990) Mackay et al. (2006d) Cotham and Bidleman (1989) Suntio et al. (1988) Glotfelty et al. (1987) Sanders and Seiber (1983) Mackay and Shiu (1981) Hilal et al. (2008)	M M V V V V V V Q	 9 31

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
malaoxon $C_{10}H_{19}O_7PS$ [1634-78-2]	5.5×10^{6}		HSDB (2015)	Q	38
cadusafos $C_{10}H_{23}O_2PS_2$ [95465-99-9]	7.6		HSDB (2015)	V	
fensulfothion $C_{11}H_{17}O_4PS_2$ [115-90-2]	7.0×10^{4}		HSDB (2015)	Q	38
phenthoate $C_{12}H_{17}O_4PS_2$ [2597-03-7]	1.8×10^{3} 9.8×10^{1}		HSDB (2015) Mackay et al. (2006d)	V V	
sulprofos $C_{12}H_{19}O_2PS_3$ [35400-43-2]	1.1×10^{1} 1.1×10^{1}		HSDB (2015) MacBean (2012a)	V ?	 9
S,S,S-tributyl phosphorotrithioate $C_{12}H_{27}OPS_3$ (DEF) [78-48-8]	3.4×10^{1} 1.3		Fendinger and Glotfelty (1990) Glotfelty et al. (1987)	M V	
iprobenphos $C_{13}H_{21}O_3PS$ [26087-47-8]	2.6×10^{2}		Watanabe (1993)	M	
propaphos $C_{13}H_{21}O_4PS$ [7292-16-2]	3.4×10^{3} 3.4×10^{3}		HSDB (2015) MacBean (2012a)	V ?	
edifenphos $C_{14}H_{15}O_2PS_2$ [17109-49-8]	5.0×10^{3} 1.3×10^{4} 1.4×10^{1}		Watanabe (1993) HSDB (2015) Mackay et al. (2006d)	M V V	
systox $C_{16}H_{38}O_6P_2S_4$ [8065-48-3]	5.5×10^{1}		HSDB (2015)	V	
temefos $C_{16}H_{20}O_6P_2S_3$ [3383-96-8]	4.9×10^{3}		HSDB (2015)	Q	38
methamidophos $C_2H_8NOPS_2$ [10265-92-6]	1.1×10^{4}		HSDB (2015)	Q	38
acephate $C_4H_{10}NO_3PS$ [30560-19-1]	2.0×10^{7} 2.0×10^{7}		HSDB (2015) Mackay et al. (2006d)	V V	
dimethoate $C_5H_{12}NO_3PS_2$ [60-51-5]	4.1×10^{4} 8.7×10^{3} 9.1×10^{3}		HSDB (2015) Mackay et al. (2006d) Suntio et al. (1988)	V V V	 9

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
omethoate $C_5H_{12}NO_4PS$ [1113-02-6]	2.1×10^{8}		HSDB (2015)	Q	38
methidathion $C_6H_{11}N_2O_4PS_3$ [950-37-8]	1.4×10^{3} 5.8×10^{3} 5.8×10^{3}		HSDB (2015) Glotfelty et al. (1987) Burkhard and Guth (1981)	V V V	
fosthietan $C_6H_{12}NO_3PS_2$ [21548-32-3]	2.4×10^{5} 2.4×10^{5}		HSDB (2015) MacBean (2012a)	V ?	
formothion $C_6H_{12}NO_4PS_2$ [2540-82-1]	9.0×10^{4}		HSDB (2015)	V	
menazon $C_6H_{12}N_5O_2PS_2$ [78-57-9]	6.6×10^{3}		HSDB (2015)	V	
ethoate-methyl $C_6H_{14}NO_3PS_2$ [116-01-8]	3.5×10^{5}		HSDB (2015)	Q	38
glyphosate-trimesium $C_6H_{16}NO_5PS$ [81591-81-3]	$>2.3\times10^{10}$		MacBean (2012a)	?	
methylparathion $C_8H_{10}NO_5PS$ [298-00-0]	5.0×10^{1} 2.6×10^{2} 1.6×10^{2} 9.9×10^{1} 4.7×10^{1} 9.9×10^{1} 4.7×10^{1} 9.2×10^{1} 2.1×10^{3} 1.6×10^{2} 1.5×10^{1}		Mackay and Shiu (1981) Rice et al. (1997b) Fendinger and Glotfelty (1990) Metcalfe et al. (1980) Mackay et al. (2006d) Woodrow et al. (1990) Suntio et al. (1988) Glotfelty et al. (1987) Sanders and Seiber (1983) Metcalfe et al. (1980) Hilal et al. (2008)	L M M M V V V V V V Q	 9 9 31
zinophos $C_8H_{13}N_2O_3PS$ (thionazin) [297-97-2]	1.0×10^{1} 1.2×10^{1} 1.1×10^{1}		Mackay et al. (2006d) Suntio et al. (1988) MacBean (2012a)	V V ?	 9
vamidothion $C_8H_{18}NO_4PS_2$ [2275-23-2]	1.1×10^{10}		HSDB (2015)	Q	38
cyanophos $C_9H_{10}NO_3PS$ [2636-26-2]	1.8		HSDB (2015)	V	

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
fenitrothion	8.3×10^{1}		Watanabe (1993)	M	
$C_9H_{12}NO_5PS$	1.1×10^{1}		Metcalfe et al. (1980)	M	
[122-14-5]	8.3×10^{2}		Mackay et al. (2006d)	V	
	2.8×10^{2}		Suntio et al. (1988)	V	9
	2.7×10^{1}		Mackay and Shiu (1981)	V	
	1.5×10^{1}		Metcalfe et al. (1980)	V	
	5.3		Hilal et al. (2008)	Q	
fosthiazate-1	7.5×10^{1}		MacBean (2012b)	X	137
$C_9H_{18}NO_3PS_2$					
[98886-44-3]					
prothoate	1.5×10^{5}		HSDB (2015)	Q	38
$C_9H_{20}NO_3PS_2$					
(trimethoate)					
[2275-18-5]					
azinphos-methyl	3.4×10^{3}		HSDB (2015)	V	
$C_{10}H_{12}N_3O_3PS_2$	3.2×10^{3}		Mackay et al. (2006d)	V	
[86-50-0]	3.1×10^{2}		Suntio et al. (1988)	V	9
parathion	1.2×10^{2}		Fendinger and Glotfelty (1990)	M	
$C_{10}H_{14}NO_5PS$	7.1×10^{1}		Mackay et al. (2006d)	V	
(E 605)	5.0×10^{1}		Siebers and Mattusch (1996)	V	9
[56-38-2]	5.0×10^{1}		Siebers et al. (1994)	V	
	8.3×10^{1}		Suntio et al. (1988)	V	9
	4.2×10^{1}		Glotfelty et al. (1987)	V	
	1.6×10^{3}		Sanders and Seiber (1983)	V	31
	8.1		Mackay and Shiu (1981)	V	
	1.3×10^{1}		Burkhard and Guth (1981)	V	
	1.0×10^{1}		Chiou et al. (1980)	V	
	3.3×10^{1}		MacBean (2012b)	X	137
	6.5		Hilal et al. (2008)	Q	
etrimfos	1.6×10^{1}		HSDB (2015)	V	
$C_{10}H_{17}N_2O_4PS$					
[38260-54-7]					
propetamphos	2.1×10^{2}		HSDB (2015)	V	
$C_{10}H_{20}NO_4PS$					
[31218-83-4]					
mecarbam	1.1×10^{4}		HSDB (2015)	Q	38
$C_{10}H_{20}NO_5PS_2$					
[2595-54-2]					
phosmet	1.2×10^{3}		HSDB (2015)	V	
$C_{11}H_{12}NO_4PS_2$	1.3×10^{3}		Mackay et al. (2006d)	V	
[732-11-6]	1.1×10^{3}		Suntio et al. (1988)	V	9
pirimiphos methyl	1.6×10^{1}		HSDB (2015)	V	
$C_{11}H_{20}N_3O_3PS$					
[29232-93-7]					

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
Agent VX	9.1×10^{2}		HSDB (2015)	V	
$C_{11}H_{26}NO_2PS$	1.2×10^{3}		Opresko et al. (1998)	?	
[50782-69-9]					
triazophos	3.2×10^{2}		HSDB (2015)	V	
$C_{12}H_{16}N_3O_3PS$					
[24017-47-8]					
azinphos-ethyl	1.0×10^{2}		HSDB (2015)	V	
$C_{12}H_{16}N_3O_3PS_2$					
[2642-71-9]					
diazinon	4.6×10^{1}		Muir et al. (2004)	L	144
$C_{12}H_{21}N_2O_3PS$	9.2×10^{1}		Muir et al. (2004)	L	143
(dimpylate)	1.5×10^{1}	12000	Feigenbrugel et al. (2004a)	M	
[333-41-5]	1.1×10^{1}		Watanabe (1993)	M	
	8.4×10^{1}		Fendinger et al. (1989)	M	126
	8.8×10^{1}		Fendinger and Glotfelty (1988)	M	126
	2.5×10^{1}		Mackay et al. (2006d)	V	
	1.5×10^{1}		Suntio et al. (1988)	V	9
	6.7		Glotfelty et al. (1987)	V	
	1.0×10^{2}		Sanders and Seiber (1983)	V	31
	1.3×10^{1}		Burkhard and Guth (1981)	V	
	1.4×10^{2}		Meylan and Howard (1991)	Q	
isoxathion	1.6×10^{2}		HSDB (2015)	Q	38
$C_{13}H_{16}NO_4PS$					
[18854-01-8]					
fenamiphos	1.1×10^{3}		HSDB (2015)	V	
$C_{13}H_{22}NO_3PS$					
[22224-92-6]					
tebupirimfos	3.5		HSDB (2015)	V	
$C_{13}H_{23}N_2O_3PS$					
[96182-53-5]					
pirimiphos ethyl	1.8×10^{-1}		HSDB (2015)	V	
$C_{13}H_{24}N_3O_3PS$					
[23505-41-1]					
bensulide	1.1×10^{3}		HSDB (2015)	V	
$C_{14}H_{24}NO_4PS_3$					
[741-58-2]					
ethyl *p*-nitrophenyl benzenethiophosphonate	2.2×10^{1}		HSDB (2015)	V	
$C_{14}H_{14}NO_4PS$					
[2104-64-5]					
isofenphos	1.2×10^{2}		Mackay et al. (2006d)	V	
$C_{15}H_{24}NO_4PS$	2.4×10^{2}		MacBean (2012b)	X	137
[25311-71-1]	2.4×10^{2}		MacBean (2012a)	?	9
chlormephos	3.4×10^{-2}		HSDB (2015)	V	
$C_5H_{12}ClO_2PS_2$					
[24934-91-6]					

Table 6: Henry's law constants for water as solvent (. . . continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
chlorethoxyfos $C_6H_{11}Cl_4O_3PS$ [54593-83-8]	2.3		HSDB (2015)	Q	38
ronnel $C_8H_8O_3Cl_3PS$ [299-84-3]	4.8×10^{-1} 1.7×10^{-2} 3.1×10^{-1} 5.7×10^{-2}		Mackay and Shiu (1981) Mackay et al. (2006d) Suntio et al. (1988) Hilal et al. (2008)	L V V Q	 9
tolclofos-methyl $C_9H_{11}Cl_2O_3PS$ [57018-04-9]	1.7×10^{-2}		Mackay et al. (2006d)	V	
methyl trithion $C_9H_{12}ClO_2PS_3$ [953-17-3]	9.9×10^{1}		HSDB (2015)	Q	38
trichloronate $C_{10}H_{12}Cl_3O_2PS$ [327-98-0]	9.0×10^{-1} 7.5×10^{1}		HSDB (2015) MacBean (2012a)	V ?	
dichlofenthion $C_{10}H_{13}Cl_2O_3PS$ [97-17-6]	1.0×10^{-2} 3.2×10^{-5} 3.2×10^{-5}		HSDB (2015) Mackay et al. (2006d) Suntio et al. (1988)	V V V	 9
chlorthiophos $C_{11}H_{15}Cl_2O_3PS_2$ [21923-23-9]	8.2		HSDB (2015)	Q	38
carbophenothion $C_{11}H_{16}ClO_2PS_3$ [786-19-6]	4.9×10^{1} 2.2×10^{1}		HSDB (2015) Suntio et al. (1988)	V V	 9
coumaphos $C_{14}H_{16}ClO_5PS$ [56-72-4]	9.0×10^{1}		HSDB (2015)	V	
methylchlorpyrifos $C_7H_7NO_3Cl_3PS$ [5598-13-0]	4.1 2.5 2.9 3.3 6.5×10^{-1}		HSDB (2015) Mackay et al. (2006d) Suntio et al. (1988) Mackay and Shiu (1981) Hilal et al. (2008)	V V V V Q	 9
dicapthon $C_8H_9NO_5ClPS$ [2463-84-5]	1.0×10^{2} 4.2×10^{1} 4.2×10^{1} 4.4×10^{1} 6.5		HSDB (2015) Mackay et al. (2006d) Suntio et al. (1988) Mackay and Shiu (1981) Hilal et al. (2008)	V V V V Q	 9
chlorthion $C_8H_9ClNO_5PS$ [500-28-7]	2.5×10^{2} 2.4×10^{2}		HSDB (2015) MacBean (2012a)	V ?	
isazophos $C_9H_{17}ClN_3O_3PS$ [42509-80-8]	1.9×10^{1} 1.1×10^{2} 7.2×10^{1}		HSDB (2015) Burkhard and Guth (1981) MacBean (2012a)	V V ?	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
chlorpyrifos	1.8		Muir et al. (2004)	L	144
$C_9H_{11}Cl_3NO_3PS$	2.1		Muir et al. (2004)	L	143
[2921-88-2]	2.2×10^{-1}	7800	Cetin et al. (2006)	M	
	3.1		Rice et al. (1997b)	M	9
	2.4		Fendinger and Glotfelty (1990)	M	
	9.2×10^{-1}		Mackay et al. (2006d)	V	
	1.7		Siebers et al. (1994)	V	
	5.7×10^{-1}		Suntio et al. (1988)	V	9
	8.1×10^{-1}		Glotfelty et al. (1987)	V	
	3.4		HSDB (2015)	C	
	1.4		Armbrust (2000)	C	
	2.2×10^{-1}		Hilal et al. (2008)	Q	
	2.5×10^{2}		Meylan and Howard (1991)	Q	
chlorphoxim $C_{12}H_{14}ClN_2O_3PS$ [14816-20-7]	$>2.3\times10^{10}$		MacBean (2012a)	?	
phosazetim $C_{14}H_{11}Cl_2N_2O_4PS$ [4104-14-7]	2.1×10^{3}		HSDB (2015)	Q	38
dialifor	5.5×10^{1}		HSDB (2015)	V	
$C_{14}H_{17}ClNO_4PS_2$	7.1		Mackay et al. (2006d)	V	
[10311-84-9]	7.1		Suntio et al. (1988)	V	9
bromophos	1.0×10^{-1}		HSDB (2015)	V	
$C_8H_8BrCl_2O_3PS$	1.1×10^{-1}		MacBean (2012a)	?	9
[2104-96-3]					
bromophos-ethyl $C_{10}H_{12}BrCl_2O_3PS$ [4824-78-6]	6.2×10^{-1}		HSDB (2015)	Q	38
profenofos	4.5×10^{2}		HSDB (2015)	V	
$C_{11}H_{15}BrClO_3PS$	6.2×10^{2}		Mackay et al. (2006d)	V	
[41198-08-7]					
iodofenphos	2.2		HSDB (2015)	V	
$C_8H_8Cl_2IO_3PS$	$>2.3\times10^{10}$		MacBean (2012a)	?	
[18181-70-9]					

Organic species with other elements

Sodium (Na)

sesone $C_8H_7Cl_2NaO_5S$ (2,4-dichlorophenoxyethyl sulfate) [136-78-7]	3.8×10^{5}		HSDB (2015)	Q	38
D&C black 1 $C_{22}H_{14}N_6Na_2O_9S_2$ (amido black 10B) [1064-48-8]	8.2×10^{25}		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
D&C green 5 $C_{28}H_{20}N_2Na_2O_8S_2$ [4403-90-1]	3.1×10^{23}		HSDB (2015)	Q	182
FD&C green 2 $C_{37}H_{34}N_2Na_2O_9S3$ [5141-20-8]	7.0×10^{30}		HSDB (2015)	Q	182
dioctyl sulfosuccinatesodium salt $C_{20}H_{37}NaO_7S$ (bis(2-ethylhexyl) sodium sulfosuccinate) [577-11-7]	2.0×10^{6}		HSDB (2015)	Q	38
D&C yellow 10 $C_{20}H_{17}NO_8Na_2S_2$ [8004-92-0]	3.4×10^{14}		HSDB (2015)	Q	38
D&C yellow 8 $C_{20}H_{10}Na_2O_5$ (fluorescein sodium) [518-47-8]	3.5×10^{10}		HSDB (2015)	Q	182
dodecylbenzenesulfonic acid sodium salt $C_{18}H_{29}NaO_3S$ (sodium dodecylbenzenesulfonate) [25155-30-0]	1.6×10^{2}		HSDB (2015)	Q	38
Aluminum (Al)					
fosetyl-aluminum $C_6H_{18}AlO_9P_3$ [39148-24-8]	3.1×10^{9}		HSDB (2015)	V	
Silicon (Si)					
tetramethylsilane $C_4H_{12}Si$ [75-76-3]	2.3×10^{-6} 2.4×10^{-6}		HSDB (2015) Abraham et al. (1990)	V ?	
tetraethylsilane $C_8H_{20}Si$ [631-36-7]	3.8×10^{-6}		Abraham et al. (1990)	?	
trimethylsilanol $(CH_3)_3SiOH$ (TMS) [1066-40-6]	7.0×10^{-2} 2.2×10^{-1}		Xu and Kropscott (2014) Mazzoni et al. (1997)	M V	
silicic acid $Si(OH)_4$ [10193-36-9]	2.3×10^{10}	14000	Plyasunov (2012)	M	297

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
dimethylsilanediol	2.8×10^{3}		Xu and Kropscott (2012)	M	9
$C_2H_8O_2Si$	2.9×10^{-1}		Mazzoni et al. (1997)	V	
[1066-42-8]					
tetramethyl silicate	1.5		HSDB (2015)	Q	38
$C_4H_{12}O_4Si$					
[681-84-5]					
pentamethyldisiloxanol	7.3×10^{-4}		Mazzoni et al. (1997)	V	
$C_5H_{16}O_2Si_2$					
[56428-93-4]					
tetraethyl silicate	4.9×10^{-1}		HSDB (2015)	Q	38
$C_8H_{20}O_4Si$					
[78-10-4]					
trimethoxysilylpropyl methacrylate	3.3×10^{1}		HSDB (2015)	Q	38
$C_{10}H_{20}O_5Si$					
[2530-85-0]					
hexamethyldisiloxane	1.3×10^{-6}		Xu and Kropscott (2014)	M	
$C_6H_{18}OSi_2$	1.7×10^{-4}		Kochetkov et al. (2001)	M	298, 124
(L2)	3.1×10^{-4}		Kochetkov et al. (2001)	M	298, 125
[107-46-0]	7.7×10^{-7}		David et al. (2000)	M	126
	1.0×10^{-6}		Xu and Kropscott (2014)	V	
	1.0×10^{-6}		Kochetkov et al. (2001)	V	
	4.2×10^{-6}		Mazzoni et al. (1997)	V	
octamethyltrisiloxane	3.4×10^{-7}		Xu and Kropscott (2014)	M	
$C_8H_{24}O_2Si_3$	3.3×10^{-6}		Kochetkov et al. (2001)	M	298, 124
(L3)	2.7×10^{-6}		Kochetkov et al. (2001)	M	298, 125
[107-51-7]	2.8×10^{-7}		Xu and Kropscott (2014)	V	
	2.8×10^{-7}		Kochetkov et al. (2001)	V	
	1.2×10^{-6}		Mazzoni et al. (1997)	V	
decamethyltetrasiloxane	1.4×10^{-7}		Xu and Kropscott (2014)	M	
$C_{10}H_{30}O_3Si_4$	5.8×10^{-7}		Kochetkov et al. (2001)	M	298, 124
(L4)	3.7×10^{-7}		Xu and Kropscott (2014)	V	
[141-62-8]	4.3×10^{-7}		Kochetkov et al. (2001)	V	
	3.1×10^{-7}		Mazzoni et al. (1997)	V	
dodecamethylpentasiloxane	8.7×10^{-8}		Mazzoni et al. (1997)	V	
$C_{12}H_{36}O_4Si_5$					
(L5)					
[141-63-9]					
tetradecamethylhexasiloxane	2.7×10^{-8}		Mazzoni et al. (1997)	V	
$C_{14}H_{42}O_5Si_6$					
(L6)					
[107-52-8]					
hexadecamethylheptasiloxane	7.6×10^{-9}		Mazzoni et al. (1997)	V	
$C_{16}H_{48}O_6Si_7$					
(L7)					
[541-01-5]					

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
octadecamethyloctasiloxane $C_{18}H_{54}O_7Si_8$ (L8) [556-69-4]	3.3×10^{-9}		Mazzoni et al. (1997)	V	
hexamethylcyclotrisiloxane $C_6H_{18}O_3Si_3$ (D3) [541-05-9]	5.6×10^{-6}		Mazzoni et al. (1997)	V	
octamethylcyclotetrasiloxane $C_8H_{24}O_4Si_4$ (D4) [556-67-2]	7.3×10^{-7}		Xu and Kropscott (2014)	M	
	8.3×10^{-7}		Xu and Kropscott (2012)	M	31
	1.7×10^{-5}		Kochetkov et al. (2001)	M	115, 124
	1.7×10^{-5}		Kochetkov et al. (2001)	M	115, 125
	1.2×10^{-4}		Hamelink et al. (1996)	M	9
	1.5×10^{-6}		Xu and Kropscott (2014)	V	
	1.6×10^{-6}		Kochetkov et al. (2001)	V	
	8.3×10^{-7}		Mazzoni et al. (1997)	V	
	2.7×10^{-6}		Hamelink et al. (1996)	V	9
decamethylcyclopentasiloxane $C_{10}H_{30}O_5Si_5$ (D5) [541-02-6]	2.8×10^{-7}		Xu and Kropscott (2014)	M	
	3.0×10^{-7}		Xu and Kropscott (2012)	M	
	3.4×10^{-5}		Kochetkov et al. (2001)	M	146, 124
	3.1×10^{-5}		Kochetkov et al. (2001)	M	146, 125
	7.4×10^{-5}		David et al. (2000)	M	126
	2.3×10^{-6}		Xu and Kropscott (2014)	V	
	2.2×10^{-6}		Kochetkov et al. (2001)	V	
	1.5×10^{-6}		Mazzoni et al. (1997)	V	
dodecamethylcyclohexasiloxane $C_{12}H_{36}O_6Si_6$ (D6) [540-97-6]	4.0×10^{-7}		Xu and Kropscott (2012)	M	27
	6.8×10^{-5}		Kochetkov et al. (2001)	M	146, 124
	1.5×10^{-4}		Kochetkov et al. (2001)	M	146, 125
	3.9×10^{-6}		Kochetkov et al. (2001)	V	
tetramethyldisiloxane-1,3-diol $C_4H_{14}O_3Si_2$ [1118-15-6]	1.8×10^{-1}		Mazzoni et al. (1997)	V	
hexamethyltrisiloxane-1,5-diol $C_6H_{20}O_4Si_3$ [3663-50-1]	3.4×10^{-3}		Mazzoni et al. (1997)	V	
octamethyltetrasiloxane-1,7-diol $C_8H_{26}O_5Si_4$ [3081-07-0]	2.7×10^{-3}		Mazzoni et al. (1997)	V	
pentamethylcyclotrisiloxanol $C_5H_{16}O_4Si_3$ [106916-50-1]	1.1×10^{-3}		Mazzoni et al. (1997)	V	
heptamethylcyclotetrasiloxanol $C_7H_{22}O_5Si_4$ [5290-02-8]	2.3×10^{-4}		Mazzoni et al. (1997)	V	

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
nonamethylcyclopentasiloxanol $C_9H_{28}O_6Si_5$ [5290-04-0]	7.0×10^{-5}		Mazzoni et al. (1997)	V	
hexamethyldisilazane $C_6H_{19}NSi_2$ [999-97-3]	1.1×10^{-1}		HSDB (2015)	Q	38
dichloromethylsilane CH_4Cl_2Si (methyldichlorosilane) [75-54-7]	7.6×10^{-4}		HSDB (2015)	Q	38
etacelasil $C_{11}H_{25}O_6ClSi$ [37894-46-5]	2.9×10^{3}		MacBean (2012a)	?	
Zinc (Zn)					
zineb $C_4H_6N_2S_4Zn$ [12122-67-7]	2.7×10^{3} $>3.7\times10^{3}$		Mackay et al. (2006d) MacBean (2012b)	V X	 137
ziram $C_6H_{12}N_2S_4Zn$ [137-30-4]	1.6×10^{4} 2.1×10^{5}		HSDB (2015) Mackay et al. (2006d)	V V	
Arsenic (Sn)					
diethyl arsine $C_4H_{11}As$ [692-42-2]	2.2×10^{-5}		HSDB (2015)	Q	38
lewisite $C_2H_2AsCl_3$ [541-25-3]	3.1×10^{-2}		HSDB (2015)	V	
phenyldichloroarsine $C_6H_5AsCl_2$ [696-28-6]	3.3×10^{-1}		HSDB (2015)	Q	38
adamsite $C_{12}H_9AsClN$ [578-94-9]	3.0×10^{2}		HSDB (2015)	Q	38
Selenium (Se)					
2-amino-4-(methylselenyl)butyric acid $C_5H_{11}NO_2Se$ (selenium methionine) [1464-42-2]	2.9×10^{5}		HSDB (2015)	Q	38
Tin (Sn)					

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
tetramethylstannane $C_4H_{12}Sn$ (tetramethyltin) [594-27-4]	9.4×10^{-6} 9.7×10^{-6} 1.2×10^{-5}	3800	Abraham and Nasehzadeh (1981) Abraham et al. (1990) Abraham (1979)	M ? ?	
tetraethylstannane $C_8H_{20}Sn$ (tetraethyltin) [597-64-8]	1.6×10^{-5} 6.1×10^{-6} 5.7×10^{-6} 1.1×10^{-5}	6100	HSDB (2015) Abraham et al. (1990) Abraham and Nasehzadeh (1981) Abraham (1979)	Q ? ? ?	38 299
tetrabutylstannane $C_{16}H_{36}Sn$ (tetra-butyl tin) [1461-25-2]	1.6×10^{-6}		HSDB (2015)	Q	38
hexabutyldistannoxane $C_{24}H_{54}OSn_2$ (bis(tributyltin)oxide) [56-35-9]	7.6×10^{1}		HSDB (2015)	V	
hexakis(2-methyl-2-phenylpropyl)distannoxane $C_{60}H_{78}OSn_2$ (fenbutatin oxide) [13356-08-6]	4.9×10^{3}		HSDB (2015)	V	
1-(tricyclohexylstannyl)1H-1,2,4-triazole $C_{20}H_{35}N_3Sn$ (azocyclotin) [41083-11-8]	4.6×10^{6}		HSDB (2015)	V	
Mercury (Hg)					
dimethylmercury C_2H_6Hg [593-74-8]	1.3×10^{-3} 2.1×10^{-3} 1.3×10^{-3} 1.0×10^{-3} 1.5×10^{-3} 1.3×10^{-3} 3.1×10^{-3}	2700 2700 3000 2700 	Talmi and Mesmer (1975) Abraham et al. (2008) WHO (1990) Abraham et al. (2008) Schroeder and Munthe (1998) Schroeder and Munthe (1998) Iverfeldt and Persson (1985)	M C C Q ? ? ?	 88 7 7 90
diethylmercury $C_4H_{10}Hg$ [627-44-1]	1.0×10^{-3}	3800	Abraham et al. (2008)	Q	88
dipropylmercury $C_6H_{14}Hg$ [628-85-3]	5.6×10^{-4}	4600	Abraham et al. (2008)	Q	88
diisopropylmercury $C_6H_{14}Hg$ [1071-39-2]	3.9×10^{-4}	4600	Abraham et al. (2008)	Q	88

Table 6: Henry's law constants for water as solvent (...continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
dibutylmercury $C_8H_{18}Hg$ [629-35-6]	2.9×10^{-4}	5400	Abraham et al. (2008)	Q	88
diphenylmercury $C_{12}H_{10}Hg$ [587-85-9]	2.8×10^{2}	8800	Abraham et al. (2008)	Q	88
hydroxymethylmercury CH_3HgOH [1184-57-2]	9.8×10^{2} 1.5×10^{3}	7700	Iverfeldt and Persson (1985) Shon et al. (2005)	M ?	 300
phenyl mercuric ethanoate $C_8H_8HgO_2$ [62-38-4]	1.5×10^{4}		Suntio et al. (1988)	V	9
(3-cyanoguanidino)methylmercury $C_3H_6N_4Hg$ (methylmercuric dicyanamide) [502-39-6]	7.0×10^{4}		HSDB (2015)	Q	38
chloromethylmercury CH_3HgCl [115-09-3]	2.2×10^{1} 1.5×10^{1} 2.0×10^{1} 2.6×10^{1} 1.5×10^{1}	1800 4100 5300	Iverfeldt and Lindqvist (1982) Talmi and Mesmer (1975) WHO (1990) Abraham et al. (2008) Schroeder and Munthe (1998) Iverfeldt and Persson (1985)	M M C Q ? ?	301 31 302 28, 7 90
chloroethylmercury C_2H_5HgCl [107-27-7]	1.5×10^{1}	5600	Abraham et al. (2008)	Q	88
chloropropylmercury C_3H_7HgCl [2440-40-6]	1.2×10^{1}	5900	Abraham et al. (2008)	Q	88
chloroisopropylmercury C_3H_7HgCl [30615-19-1]	9.9	6000	Abraham et al. (2008)	Q	88
chlorobutylmercury C_4H_9HgCl [543-63-5]	8.8	6300	Abraham et al. (2008)	Q	88
chloropentylmercury $C_5H_{11}HgCl$ [544-15-0]	7.0	6700	Abraham et al. (2008)	Q	88
chlorophenylmercury C_6H_5HgCl [100-56-1]	3.8×10^{2} 9.2×10^{2}	 7400	Abraham et al. (2008) Abraham et al. (2008)	V Q	 88
2-methoxyethylmercury chloride $CH_3OC_2H_4HgCl$ (aretan) [123-88-6]	3.9×10^{3}	8600	Abraham et al. (2008)	Q	88

Table 6: Henry's law constants for water as solvent (…continued)

Substance Formula (Trivial Name) [CAS Registry Number]	H^{cp} (at $T^{\ominus}$) $\left[\frac{\mathrm{mol}}{\mathrm{m^3\,Pa}}\right]$	$\frac{\mathrm{d}\ln H^{cp}}{\mathrm{d}(1/T)}$ [K]	Reference	Type	Note
bromomethylmercury CH_3HgBr [506-83-2]	 3.7	4800	Abraham et al. (2008) Iverfeldt and Persson (1985)	Q ?	302 90
bromoethylmercury C_2H_5HgBr [107-26-6]	3.0	5200	Abraham et al. (2008)	Q	88
bromophenylmercury C_6H_5HgBr [1192-89-8]	1.8×10^{2}	6900	Abraham et al. (2008)	Q	88
iodomethylmercury CH_3HgI [143-36-2]	2.0 5.8×10^{-1}	4800	Abraham et al. (2008) Iverfeldt and Persson (1985)	Q ?	88 90
iodoethylmercury C_2H_5HgI [2440-42-8]	2.5	5200	Abraham et al. (2008)	Q	88
iodophenylmercury C_6H_5HgI [823-04-1]	9.0×10^{1}	6700	Abraham et al. (2008)	Q	88
Lead (Pb)					
tetramethyl lead $C_4H_{12}Pb$ [75-74-1]	1.6×10^{-5}		HSDB (2015)	V	
ethyltrimethylplumbane $C_5H_{14}Pb$ [1762-26-1]	2.8×10^{-5}		HSDB (2015)	Q	38
diethyldimethylplumbane $C_6H_{16}Pb$ (diethyldimethyl lead) [1762-27-2]	2.1×10^{-5}		HSDB (2015)	Q	38
triethylmethylplumbane $C_7H_{18}Pb$ (methyltriethyl lead) [1762-28-3]	1.6×10^{-5}		HSDB (2015)	Q	38
tetraethyllead $C_8H_{20}Pb$ [78-00-2]	1.3×10^{-5} 1.3×10^{-5}	6400	Feldhake and Stevens (1963) Abraham (1979)	M ?	

Notes

1) Vapor pressure data for water from Wagner and Pruss (1993) was needed to calculate H.

2) Winkler (1891b) also contains high-temperature data. However, only data up to 330 K was used here to calculate the temperature dependence.

3) Value given here as quoted by Fogg and Sangster (2003).

4) Erratum for page 270 of Fogg and Sangster (2003): The CAS registry number is wrong, and the corresponding equation is wrong. The first term should be -178.763753281, not -187.07794.

5) Value given here as quoted by Lide and Frederikse (1995).

6) Only the tabulated data between T = 273 K and T = 303 K from Dean (1992) was used to derive H and its temperature dependence. Above T = 303 K, the tabulated data could not be parameterized by Eq. (19) very well. The partial pressure of water vapor (needed to convert some Henry's law constants) was calculated using the formula given by Sander et al. (1995). The quantities A and α from Dean (1992) were assumed to be identical.

7) Several references are given in the list of Henry's law constants but not assigned to specific species.

8) Roth and Sullivan (1981) found that H depends on the concentration of OH^-.

9) Value at T = 293 K.

10) Value given here as quoted by Durham et al. (1981).

11) Calculated from correlation between the polarizabilities and solubilities of stable gases. The temperature dependence is an estimate of the upper limit.

12) Jacob (1986) assumed the temperature dependence to be the same as for water.

13) In the abstract, Schwartz (1984) gives a range of 9.9 $\mathrm{mol/(m^3\,Pa)} < H^{cp} < 3.0\times10^1\ \mathrm{mol/(m^3\,Pa)}$. The mean value of this range ($2.0\times10^1\ \mathrm{mol/(m^3\,Pa)}$) has been used by Lelieveld and Crutzen (1991), Pandis and Seinfeld (1989), and Jacob (1986).

14) The value of $H^\ominus$ was taken from Schwartz (1984).

15) Erratum for page 264 of Fogg and Sangster (2003): The second value from their Ref. [10] refers to 291.15 K, not 281.15 K.

16) This value is a correction of the solubility published by Lind and Kok (1986).

17) This value was measured at low pH. It is superseded by a later publication of the same group (Lind and Kok, 1994).

18) Pandis and Seinfeld (1989) cite an incorrect value from Lind and Kok (1986), see erratum by Lind and Kok (1994).

19) Value at T = 310 K.

20) Value given here as quoted by Betterton (1992).

21) Bone et al. (1983) gives Carter et al. (1968) as the source. However, no data was found in that reference.

22) There is a typo in Sander et al. (2011): The value for A should be -10.19, not 10.19.

23) Value at T = 303 K.

24) The parametrization given by Lide and Frederikse (1995) with parameters A, B, and C doesn't fit the data in the same paper for this substance. Therefore the parametrization of the solubility data was recalculated.

25) The H298 and A,B,C data listed in Table 5.4 of Sander et al. (2011) are inconsistent, with 94 % difference.

26) The H298 and A,B,C data listed in Table 5.4 of Sander et al. (2006) are inconsistent, with 94 % difference.

27) Value at T = 297 K.

28) Value at T = 288 K.

29) Erratum for page 269 of Fogg and Sangster (2003): The equation is wrong and not consistent with the corresponding equation for $\ln(x)$: The temperature in the last term must be divided by 100 (i.e. $\ln(T/100)$ not $\ln(T)$) and an additional term of $\ln(100)$ must be added.

30) The fitting parameters A, B, C, and D in Table I of Wilhelm et al. (1977) do not reproduce the data in their Table III.

31) Value at T = 295 K.

32) Pandis and Seinfeld (1989) refer to Schwartz (1984) as the source but the quoted value cannot be found there.

33) Value obtained by estimating the diffusion coefficient for NO_3 to be $D = 1.0\times10^{-5}\ \mathrm{cm^2/s}$.

34) Jacob (1986) assume that NO_3 has the same Henry's law constant as HNO_3.

35) Seinfeld and Pandis (1998) probably refer to the incorrect value given by Pandis and Seinfeld (1989).

36) This value was extrapolated from data at T = 230 K and T = 273 K.

37) Fast, irreversible hydrolysis is assumed, which is equivalent to an infinite effective Henry's law constant.

38) Calculated based on the method by Meylan and Howard (1991).

39) Lelieveld and Crutzen (1991) assume the temperature dependence to be the same as for $a(H^+)a(NO_3^-)/p(HNO_3)$ in Schwartz and White (1981).

40) $H' = 2.6\times10^4\times\exp\left(8700\ \mathrm{K}\left(\frac{1}{T}-\frac{1}{T^\ominus}\right)\right)\frac{\mathrm{mol^2}}{\mathrm{m^6\,Pa}}$

41) $H' = 2.4\times10^4\times\exp\left(8700\ \mathrm{K}\left(\frac{1}{T}-\frac{1}{T^\ominus}\right)\right)\frac{\mathrm{mol^2}}{\mathrm{m^6\,Pa}}$

42) The value is incorrect. See erratum (Brimblecombe and Clegg, 1989).

43) Pandis and Seinfeld (1989) refer to Schwartz (1984) as the source but it is probably from Schwartz and White (1981).

44) Möller and Mauersberger (1992) assumed the solubility to be comparable to that of HNO_3.

45) $H' = 9.4 \times 10^{-2} \times \exp\left(7400\ \mathrm{K}\left(\frac{1}{T} - \frac{1}{T^{\ominus}}\right)\right) \frac{\mathrm{mol}^2}{\mathrm{m}^6\,\mathrm{Pa}}$

46) Extrapolated from data measured between 70 °C and 110 °C.

47) The value of ΔH° listed in Table 2 of Bartlett and Margerum (1999) is wrong.

48) Kruis and May (1962) claim that Cl_2 does not obey Henry's law. Looking at their interpolation formula, however, it seems that this is only because they did not consider the equilibrium $Cl_2 + H_2O \rightleftharpoons HOCl + HCl$.

49) Calculated from the free energy of solution by Schwarz and Dodson (1984).

50) $H' = 2.0\times10^4\ \frac{\mathrm{mol}^2}{\mathrm{m}^6\,\mathrm{Pa}}$

51) $H' = 2.0 \times 10^4 \times \exp\left(9000\ \mathrm{K}\left(\frac{1}{T} - \frac{1}{T^{\ominus}}\right)\right) \frac{\mathrm{mol}^2}{\mathrm{m}^6\,\mathrm{Pa}}$

52) $H' = 2.0 \times 10^4 \times \exp\left(9000\ \mathrm{K}\left(\frac{1}{T} - \frac{1}{T^{\ominus}}\right)\right) \frac{\mathrm{mol}^2}{\mathrm{m}^6\,\mathrm{Pa}}$

53) $H' = 2.0 \times 10^4 \times \exp\left(9000\ \mathrm{K}\left(\frac{1}{T} - \frac{1}{T^{\ominus}}\right)\right) \frac{\mathrm{mol}^2}{\mathrm{m}^6\,\mathrm{Pa}}$

54) Pandis and Seinfeld (1989) refer to Marsh and McElroy (1985) as the source but the quoted value cannot be found there.

55) This value was extrapolated from data at T = 215 K and T = 263 K.

56) Value at pH = 6.5.

57) Value at T = 200 K.

58) Derived as a fitting parameter used in numerical modeling.

59) Dubik et al. (1987) measured the solubility in concentrated salt solutions (natural brines).

60) $H' = 8.2 \times 10^6 \times \exp\left(10000\ \mathrm{K}\left(\frac{1}{T} - \frac{1}{T^{\ominus}}\right)\right) \frac{\mathrm{mol}^2}{\mathrm{m}^6\,\mathrm{Pa}}$

61) $H' = 1.3 \times 10^7 \times \exp\left(10000\ \mathrm{K}\left(\frac{1}{T} - \frac{1}{T^{\ominus}}\right)\right) \frac{\mathrm{mol}^2}{\mathrm{m}^6\,\mathrm{Pa}}$

62) $H' = 7.0 \times 10^6 \times \exp\left(10000\ \mathrm{K}\left(\frac{1}{T} - \frac{1}{T^{\ominus}}\right)\right) \frac{\mathrm{mol}^2}{\mathrm{m}^6\,\mathrm{Pa}}$

63) Chameides and Stelson (1992) give a value of $H' = 7.1 \times 10^6 \times \exp\left(6100\ \mathrm{K}\left(\frac{1}{T} - \frac{1}{T^{\ominus}}\right)\right) \frac{\mathrm{mol}^2}{\mathrm{m}^6\,\mathrm{Pa}}$. They refer to Jacob (1986) and Chameides (1984) as the source but this value cannot be found there.

64) The value is from Table 1 of the paper. However, *J. Geophys. Res.* forgot to print the tables and I received them directly from the author.

65) Fickert (1998) extracted a value from wetted-wall flow tube experiments. However, it was later discovered that under the experimental conditions no evaluation of H is possible (J. Crowley, pers. comm., 1999).

66) Value at T = 275 K.

67) Value at T = 290 K.

68) Calculated using data from Wagman et al. (1982) and the aqueous-phase equilibrium $Cl_2 + Br_2 \rightleftharpoons 2\ BrCl$ from Wang et al. (1994).

69) Thompson and Zafiriou (1983) quote a paper as the source that gives only the solubility but not the Henry's law constant.

70) Calculated from the free energy of solution by Schwarz and Bielski (1986).

71) $H' = 2.5 \times 10^7 \times \exp\left(9800\ \mathrm{K}\left(\frac{1}{T} - \frac{1}{T^{\ominus}}\right)\right) \frac{\mathrm{mol}^2}{\mathrm{m}^6\,\mathrm{Pa}}$

72) $H' = 2.1 \times 10^7 \times \exp\left(9800\ \mathrm{K}\left(\frac{1}{T} - \frac{1}{T^{\ominus}}\right)\right) \frac{\mathrm{mol}^2}{\mathrm{m}^6\,\mathrm{Pa}}$

73) Thompson and Zafiriou (1983) assume that $H^{cp}(\mathrm{HOI})$ is between 4.4×10^{-1} $\mathrm{mol/(m^3\,Pa)}$ and 4.4×10^{2} $\mathrm{mol/(m^3\,Pa)}$.

74) The parameter fit for the temperature dependence is wrong. A corrected version was later presented by Iliuta and Larachi (2007).

75) Value at T = 353 K.

76) Marti et al. (1997) give partial pressures of H_2SO_4 over a concentrated solution (e.g., 2.6×10^{-9} Pa for 54.1 weight-percent at 298 K). Extrapolating this to dilute solutions can only be considered an order-of-magnitude approximation for H.

77) Ayers et al. (1980) give partial pressures of H_2SO_4 over concentrated solutions at high temperatures. Extrapolating this to dilute solutions can only be considered an order-of-magnitude approximation for H.

78) Gmitro and Vermeulen (1964) give partial pressures of H_2SO_4 over a concentrated solution (e.g., 10^{-7} mmHg for 70 weight-percent at 298 K). Extrapolating this to dilute solutions can only be considered an order-of-magnitude approximation for H.

79) Clegg et al. (1998) estimate a Henry's law constant of 5×10^{11} $\mathrm{atm^{-1}}$ at 303.15 K for the reaction $H_2SO_4(g) \rightleftharpoons 2\ H^+(aq) + SO_4^{2-}(aq)$ but don't give a definition for it. Probably it is defined as $x^2(H^+) \times x(SO_4^{2-})/p(H_2SO_4)$, where x is the aqueous-phase mixing ratio.

80) Erratum for page 265 of Fogg and Sangster (2003): The corresponding equation is wrong. The second term should not be divided by 100 K.

81) The value at T = 308.15 K doesn't fit and is not used for the linear regression.

82) Though no reference was given, the value is probably from Clever (1979b).

83) Solubility in natural sea water. Measurements at dif-

ferent salinities were also performed, but only at a fixed temperature of 296.15 K.

84) Value given here as quoted by Abraham et al. (2008).

85) Petersen et al. (1998) give the invalid unit "$\mathrm{mol\,L^{-1}\,ppm^{-1}}$". Here, it is assumed that "ppm" is used as a synonym for "10^{-6} atm".

86) Shon et al. (2005) refer to Petersen et al. (1998) as the source but a different value is listed there.

87) Value at T = 333 K.

88) Calculated using linear free energy relationships (LFER).

89) Measured at high temperature and extrapolated to $T^{\ominus}$ = 298.15 K.

90) More than one reference is given as the source of this value.

91) Hedgecock et al. (2005) refer to Hedgecock and Pirrone (2004) as the source but this value cannot be found there.

92) Yaws and Yang (1992) give several references for the Henry's law constants but don't assign them to specific species.

93) Erratum for page 325 of Fogg and Sangster (2003): The second term in the equation describing the recommended data should be a division by T, not a multiplication, i.e. 1.44345E4/T.

94) The H298 and A,B,C data listed in Table 5.4 of Sander et al. (2011) are inconsistent, with 14 % difference.

95) The H298 and A,B,C data listed in Table 5.4 of Sander et al. (2006) are inconsistent, with 14 % difference.

96) The H298 and A,B,C data listed in Table 5.4 of Sander et al. (2011) are inconsistent, with 6 % difference.

97) The H298 and A,B,C data listed in Table 5.4 of Sander et al. (2006) are inconsistent, with 6 % difference.

98) It is unclear why the value given by Fogg and Sangster (2003) is about 3 times higher than that given by Lide and Frederikse (1995) (and others), even though both refer to Hayduk (1986).

99) Jou and Mather (2000) also contains high-temperature data. However, only data up to 373.2 K was used here to calculate the temperature dependence.

100) Calculated from the solvation enthalpy, using Eq. (17).

101) Apparently, the values in Table 2 of Park et al. (1997) show $\log_{10}(K_{\mathrm{aw}})$ and not K_{aw} as their figure caption states.

102) Extrapolated from data measured between 40 °C and 80 °C.

103) The value is most probably taken from the report by Howe et al. (1987).

104) In their Table 8, Staudinger and Roberts (1996) incorrectly cite a value given by Ashworth et al. (1988).

105) The same data was also published in Hansen et al. (1995).

106) Hansen et al. (1993) found that the solubility of 2-methylhexane increases with temperature.

107) Data taken from the supplement.

108) Calculated using the EPI Suite (v4.0) method.

109) Calculated using the SPARC (v4.2) method.

110) Calculated using the COSMOtherm (v2.1) method.

111) Calculated using the ABSOLV (ADMEBoxes v4.1) method.

112) Mackay et al. (2006a) list a vapor pressure p, a solubility c, and a Henry's law constant calculated as p/c. However, the data are internally inconsistent and deviate by more than 10 %.

113) Value at T = 294 K.

114) The data listed in Tabs. 2 and 3 of Dewulf et al. (1999) are inconsistent, with 5 % difference.

115) Value at T = 301 K.

116) Value given here as quoted by Staudinger and Roberts (1996).

117) Haynes (2014) refer to Mackay and Shiu (1981) but that article lists this value for 1,4-dimethylcyclohexane, not for 1,2-dimethylcyclohexane.

118) According to Donahue and Prinn (1993), the value is wrong.

119) Value at T = 291 K.

120) Regression and individual data points of Simpson and Lovell (1962) are inconsistent, with 5 % difference.

121) Sieg et al. (2009) also provide data for supercooled water. Here, only data above 0 °C was used to calculate the temperature dependence.

122) Extrapolated from data above 298 K.

123) It was found that H changes with the concentration of the solution.

124) Value obtained by applying a modified batch air-stripping method, otherwise called the vapor entry loop (VEL) method, see Kochetkov et al. (2001) for details.

125) Value obtained by applying the static head space (HS) method, see Kochetkov et al. (2001) for details.

126) Value at T = 296 K.

127) Solubility in sea water.

128) Value at T = 302 K.

129) Calculated using G_h and H_h from Table 2 in Andon et al. (1954). Note that the thermodynamic functions in that table are not based on their α in Table 1. Instead, the expression $\exp(-G_h/(RT))$ yields the Henry's law constant H^{xp} in the unit $1/\mathrm{atm}$.

130) Values for salt solutions are also available from this reference.

131) Value obtained by applying the EPICS method, see Ayuttaya et al. (2001) for details.

132) Value obtained by applying the static cell (linear form) method, see Ayuttaya et al. (2001) for details.

133) Value obtained by applying the direct phase concentration ratio method, see Ayuttaya et al. (2001) for details.

134) Value obtained by applying the static cell (non-linear form) method, see Ayuttaya et al. (2001) for details.

135) The temperature dependence is recalculated using the data in Table 4 of Lamarche and Droste (1989) and not taken from their Table 5.

136) Value given here as quoted by Dewulf et al. (1995).

137) Value given here as quoted by HSDB (2015).

138) Different types of Henry's law constants of Ryu and Park (1999) are inconsistent, with 14 % difference.

139) Erratum for page 365 of Fogg and Sangster (2003): Data from Kondoh and Nakajima (1997) is cited incorrectly, giving the same values at 308.2 K and 318.2 K, respectively.

140) Because of discrepancies between the values shown in Tables 4 and 5 of Shiu and Ma (2000), the data is not used here.

141) The values of Dewulf et al. (1999) are not used here because, according to them, the calculated regression does not match the theoretical expectation for this species.

142) Value given here as quoted by Haynes (2014).

143) Literature-derived value.

144) Final adjusted value.

145) Value given here as quoted by Petrasek et al. (1983).

146) Value at T = 299 K.

147) Value at T = 283 K.

148) Solubility in sea water at 20.99 % chlorinity.

149) Erratum for page 260 of Fogg and Sangster (2003): The corresponding equation in preferred units is wrong. The last term must be divided by 10000 (i.e. 0.0704, not 704.

150) Average of 4 pH-dependent values.

151) The H298 and A,B,C data listed in Table 5.4 of Sander et al. (2011) are inconsistent, with 92 % difference.

152) This paper supersedes earlier work with more concentrated solutions (Butler et al., 1933).

153) Value given here as quoted by Gaffney et al. (1987).

154) Value given here as quoted by Hine and Weimar (1965).

155) The H298 and A,B,C data listed in Table 5.4 of Sander et al. (2011) are inconsistent, with 10 % difference.

156) Extrapolated from data above 298 K.

157) Koga (1995) found that *tert*-butanol does not obey Henry's law at $c > 3.8\ \mathrm{mM}$.

158) Value obtained by Saxena and Hildemann (1996) using the group contribution method.

159) The species is probably 2,3-dimethyl-2-butanol and not 2,3-dimethylbutanol as listed in Hine and Mookerjee (1975).

160) It is assumed here that entry number 72 in Table 1 of Yaws et al. (1997) refers to 2-methyl-1-heptanol, not 2-methyl-2-heptanol.

161) Different types of Henry's law constants of Yaws and Yang (1992) are inconsistent, with 16 % difference.

162) Different types of Henry's law constants of Yaws and Yang (1992) are inconsistent, with 10 % difference.

163) Value at T = 307 K.

164) Value given here as quoted by Mackay et al. (1995).

165) Value given here as quoted by Hine and Mookerjee (1975).

166) Value at T = 373 K.

167) Value at T = 281 K.

168) It is assumed here that the thermodynamic data refers to the units $[\mathrm{mol\,dm^{-3}}]$ and $[\mathrm{atm}]$ as standard states.

169) Value given here as quoted by Shiu et al. (1994).

170) HSDB (2015) refer to Abraham et al. (1994b) as the source but this value cannot be found there. Maybe the value is taken from Abraham et al. (1990).

171) Mackay et al. (2006c) list a vapor pressure p, a solubility c, and a Henry's law constant calculated as p/c. However, the data are internally inconsistent and deviate by more than 10 %.

172) Betterton (1992) gives Buttery et al. (1969) as the source. However, no data was found in that reference.

173) Saxena and Hildemann (1996) say that this value is unreliable.

174) Saxena and Hildemann (1996) give a range of $9.9\times10^2\ \mathrm{mol/(m^3\,Pa)} < H^{cp} < 5.9\times10^4\ \mathrm{mol/(m^3\,Pa)}$.

175) Saxena and Hildemann (1996) give a range of $5.9\times10^6\ \mathrm{mol/(m^3\,Pa)} < H^{cp} < 3.9\times10^9\ \mathrm{mol/(m^3\,Pa)}$.

176) Saxena and Hildemann (1996) give a range of $9.9\times10^2\ \mathrm{mol/(m^3\,Pa)} < H^{cp} < 4.9\times10^4\ \mathrm{mol/(m^3\,Pa)}$.

177) Saxena and Hildemann (1996) give a range of $3.9\times10^2\ \mathrm{mol/(m^3\,Pa)} < H^{cp} < 3.9\times10^4\ \mathrm{mol/(m^3\,Pa)}$.

178) Compernolle and Müller (2014b) recommend H^{cp} for 1,7-heptanediol in the range of $4.5\times10^4\ \mathrm{mol/(m^3\,Pa)} < H^{cp} < 8.3\times10^4\ \mathrm{mol/(m^3\,Pa)}$.

179) Compernolle and Müller (2014b) recommend H^{cp} for 1,9-nonanediol in the range of $2.4\times10^4\ \mathrm{mol/(m^3\,Pa)} < H^{cp} < 3.9\times10^4\ \mathrm{mol/(m^3\,Pa)}$.

180) Compernolle and Müller (2014b) recommend H^{cp} for 1,10-decanediol in the range of $2.5\times10^4\ \mathrm{mol/(m^3\,Pa)} < H^{cp} < 3.0\times10^4\ \mathrm{mol/(m^3\,Pa)}$.

181) Value given here as quoted by Hilal et al. (2008).

182) Calculated using the EPI Suite method (http://www.epa.gov/oppt/exposure/pubs/episuitedl.htm).

183) Value at T = 278 K.

184) Leriche et al. (2000) assume $H(\mathrm{ROO}) =$

$H(\mathrm{ROOH}) \times H(\mathrm{HO_2})/H(\mathrm{H_2O_2})$.

185) Lelieveld and Crutzen (1991) assume $H(\mathrm{CH_3OO})$ = $H(\mathrm{HO_2})$.

186) Jacob (1986) assumes $H(\mathrm{CH_3OO}) = H(\mathrm{CH_3OOH}) \times H(\mathrm{HO_2})/H(\mathrm{H_2O_2})$.

187) Effective value that takes into account the hydration of HCHO:

$$H = ([\mathrm{HCHO}] + [\mathrm{CH_2(OH)_2}])/p(\mathrm{HCHO})$$

188) Data from Table 1 by Zhou and Mopper (1990) was used to redo the regression analysis. The data for acetone in their Table 2 is incorrect.

189) Dong and Dasgupta (1986) found that the Henry's law constant for HCHO is not a true constant but increases with increasing concentration. They recommend the expression

$$[\mathrm{HCHO}] = 10^{(4538/T-11.34)} \times p(\mathrm{HCHO})^{(252.2/T+0.2088)}$$

with [HCHO] = aqueous-phase concentration in [M], p(HCHO) = partial pressure in [atm], and T = temperature in [K]. Note that this expression does not converge asymptotically to a constant value at infinite dilution.

190) Ledbury and Blair (1925) (and also Blair and Ledbury (1925)) measured the solubility of HCHO at very high concentrations around 5 to 15 M. Their value of H increases with HCHO concentration. Lelieveld and Crutzen (1991), Hough (1991), and Pandis and Seinfeld (1989) all use these solubility data but do not specify how they extrapolated to lower concentrations. Since the concentration range is far away from typical values in atmospheric chemistry, the value is not reproduced here.

191) Value given here as quoted by Möller and Mauersberger (1992).

192) Effective value that takes into account the hydration of the aldehyde:

$$H = ([\mathrm{RCHO}] + [\mathrm{RCH(OH)_2}])/p(\mathrm{RCHO})$$

193) Value given here as quoted by Bone et al. (1983).

194) Value at T = 372 K.

195) The data from Buttery et al. (1971) for trans-2-octenal is incorrectly cited by Betterton (1992).

196) Calculated under the assumption that ΔG and ΔH are based on [mol/l] and [atm] as the standard states.

197) Effective value suitable for the conditions of a case study in Mexico City.

198) Volkamer et al. (2009) found average effective Henry's law constants for CHOCHO in the range 1.6×10^6 $\mathrm{mol/(m^3\,Pa)} < H^{cp} < 5.9\times10^6$ $\mathrm{mol/(m^3\,Pa)}$ for solutions containing ammonium sulfate and/or fulvic acid. A salting-in effect by fulvic acid was observed even in the absence of sulfate.

199) Solubility in sulfate aerosol.

200) Value at T = 313 K.

201) The value given here was measured at a liquid phase mixing ratio of 1 μmol/mol. Servant et al. (1991) found that the Henry's law constant changes at higher concentrations.

202) Abraham (1984) smoothed the values from a plot of enthalpy against carbon number.

203) The value of $H^{\ominus}$ was taken from Keene and Galloway (1986).

204) Calculated using thermodynamic data from Latimer (1952).

205) Value at pH = 4.

206) Pecsar and Martin (1966) is quoted as the source. However, only activity coefficients and no vapor pressures are listed there.

207) Betterton (1992) gives Kieckbusch and King (1979) as the source. However, no data was found in that reference.

208) Dipropyl phthalate is listed twice with different values.

209) Different types of Henry's law constants of Arp and Schmidt (2004) are inconsistent, with 5 % difference.

210) Betterton (1992) gives Hine and Weimar (1965) as the source. However, no data was found in that reference.

211) Betterton (1992) gives Vitenberg et al. (1975) as the source. However, no data was found in that reference.

212) Based on gas chromatograph retention indices (GC-RIs).

213) Warneck (2005) refers to Saxena and Hildemann (1996) as the source but the quoted value cannot be found there.

214) Compernolle and Müller (2014a) recommend H^{cp} for tartaric acid in the range of 6.9×10^{14} $\mathrm{mol/(m^3\,Pa)} < H^{cp} < 9.2\times10^{15}$ $\mathrm{mol/(m^3\,Pa)}$.

215) Chan et al. (2010) give a range of 1.9×10^5 $\mathrm{mol/(m^3\,Pa)} < H^{cp} < 9.5\times10^6$ $\mathrm{mol/(m^3\,Pa)}$.

216) Calculated based on the method by Hine and Mookerjee (1975).

217) Compernolle and Müller (2014a) recommend H^{cp} for citric acid in the range of 2.0×10^{14} $\mathrm{mol/(m^3\,Pa)} < H^{cp} < 5.9\times10^{15}$ $\mathrm{mol/(m^3\,Pa)}$.

218) In their Fig. 5b, Kish et al. (2013) apply an unspecified factor to the Henry's law constant, and it is not clear if the temperature dependence shown there is correct (Liu, pers. comm. 2014).

219) The data from Christie and Crisp (1967) for dipropylamine is incorrectly cited by Betterton (1992).

220) Value at T = 323 K.

221) Mackay et al. (2006d) list a vapor pressure p, a

solubility c, and a Henry's law constant calculated as p/c. However, the data are internally inconsistent and deviate by more than 10 %.

222) Calculated using $\Delta G_s^{g\to H_2O}$ and $\Delta H_s^{g\to H_2O}$ from Table IV of Arnett and Chawla (1979). Since some of the values in this table are taken directly from Andon et al. (1954), it is assumed that the thermodynamic properties are defined in the same way. Since $\Delta H_s^{g\to H_2O}$ is defined relative to pyridine, a value of -11.93 $\mathrm{kcal/mol}$ from Arnett et al. (1977) was added.

223) Due to an apparently incorrect definition of the Henry's law constant by Andon et al. (1954), Staudinger and Roberts (2001) quote incorrect values from that paper.

224) This value is calculated from the solubility of 9.4×10^{-3} $\mathrm{mol/L}$ and the vapor pressure of 0.255 mmHg, as shown on pages 7142-7143 of Arnett and Chawla (1979). It is inconsistent with the entry in Table IV of that paper.

225) Kames and Schurath (1992) couldn't assign the values to the isomers.

226) The same data was also published in Fischer and Ballschmiter (1998a).

227) Comparing the value with that from the cited publication (Kames and Schurath, 1995), it can be seen that the unit and the temperature listed in Table 3 of Warneck et al. (1996) are wrong.

228) The data from Kames and Schurath (1995) for peroxyacetyl nitrate is incorrectly cited by Schurath et al. (1996).

229) The data from Kames and Schurath (1995) for peroxypropionyl nitrate is incorrectly cited by Schurath et al. (1996).

230) The data from Kames and Schurath (1995) for peroxy-n-butyl nitrate is incorrectly cited by Schurath et al. (1996).

231) The data from Kames and Schurath (1995) for peroxymethacryloyl nitrate is incorrectly cited by Schurath et al. (1996).

232) The data from Kames and Schurath (1995) for peroxy-i-butyl nitrate is incorrectly cited by Schurath et al. (1996).

233) The data listed in Tabs. 2 and 3 of Dewulf et al. (1999) are inconsistent, with 27 % difference.

234) Value at T = 308 K.

235) Mackay et al. (2006d) list two values for dinoseb which differ by a factor of 1000. It is unclear which number is correct (if any) and the data is not reproduced here.

236) Value at T = 287 K.

237) In their Table 13, Clever et al. (2005) list Ostwald coefficients that are probably wrong by a factor of 100. Therefore, these values are not used. Instead, H is calculated using the mol fraction x_1 from the same table.

238) Value given here as quoted by Kanakidou et al. (1995).

239) Value at T = 284 K.

240) Calculated using the new SPARC method, see Arp et al. (2006) for details.

241) Calculated using the COSMOtherm method, see Arp et al. (2006) for details.

242) The H298 and A,B data listed in Table 5.4 of Sander et al. (2011) are inconsistent, with 29 % difference.

243) The Ostwald coefficient given by Clever et al. (2005) at 313.2 K is probably wrong. Therefore, the Ostwald coefficients are not used. Instead, H is calculated using the mol fraction x_1 from the same table.

244) Extrapolated based on number of carbons.

245) Measured with the wetted-wall column at room temperature.

246) The H298 and A,B data listed in Table 5.4 of Sander et al. (2011) are inconsistent, with 9 % difference.

247) The H298 and A,B data listed in Table 5.4 of Sander et al. (2006) are inconsistent, with 9 % difference.

248) The same data was also published in McConnell et al. (1975).

249) Values at different temperatures are from different sources. Thus a temperature dependence was not calculated.

250) Chiang et al. (1998) show vinyl chloride in their Table 2 but most probably they meant to refer to dichloromethane instead.

251) Probably an interpolation of the data from Balls (1980).

252) The value for A in the table of Kondoh and Nakajima (1997) is wrong. Recalculating the regression, it can be seen that it should be 13.95 and not 1.395.

253) As explained by Miller and Stuart (2003), the measurements were performed at 296 K.

254) Value for T = 295…298 K.

255) Value for T = 293…298 K.

256) Mackay et al. (2006b) list a vapor pressure p, a solubility c, and a Henry's law constant calculated as p/c. However, the data are internally inconsistent and deviate by more than 10 %.

257) Haynes (2014) refer to Mackay and Shiu (1981) but that article lists this value for 1-chloro-2-methylpropane (the saturated compound), not for 1-chloro-2-methylpropene.

258) Erratum for page 344 of Fogg and Sangster (2003): The reference [89] seems to be wrong, it does not contain 1,2-dichlorobenzene.

259) The data listed in Tabs. 2 and 3 of Dewulf et al. (1999) are inconsistent, with 7 % difference.

260) The data listed in Tabs. 2 and 3 of Dewulf et al. (1999) are inconsistent, with 7 % difference.

261) Value for T = 298…303 K.

262) Modified gas-stripping method (MGSM), see Lau et al. (2006) for details.

263) Integrated gas-stripping method (IGSM), see Lau et al. (2006) for details.

264) Calculated with the principal component regression (PCR) method, see Fang Lee (2007) for details.

265) Calculated with the partial least-square regression (PLSR) method, see Fang Lee (2007) for details.

266) The same data was also published in Dunnivant et al. (1988).

267) Value given here as quoted by Dunnivant et al. (1988).

268) Value at "room temperature".

269) Westcott et al. (1981) give a range of 1.9×10^{-2} $\mathrm{mol/(m^3\,Pa)} < H^{cp} < 3.2\times10^{-2}$ $\mathrm{mol/(m^3\,Pa)}$.

270) Westcott et al. (1981) give a range of 2.8×10^{-2} $\mathrm{mol/(m^3\,Pa)} < H^{cp} < 9.0\times10^{-2}$ $\mathrm{mol/(m^3\,Pa)}$.

271) Erratum for page 350 of Fogg and Sangster (2003): The equation describing the recommended temperature-dependent data appears to be wrong and is not used here.

272) Value at pH = 4.

273) When comparing H in table 4 with K_{gw} in table 5 of Pfeifer et al. (2001), it can be seen that the values refer to $K_{\mathrm{gw}} \times 100$ and not $K_{\mathrm{gw}}/100$.

274) Measured at pH 1.

275) Erratum for page 376 of Fogg and Sangster (2003): Data from Santl et al. (1994) is cited incorrectly, it should be 3.64, not 3.84.

276) Although pronamide and propyzamide are the same species, Mackay et al. (2006d) list two different values for them. It is unclear which number is correct (if any) and the data is not reproduced here.

277) The temperature dependence was recalculated from the data on p. 20 of McLinden (1989).

278) The data from McLinden (1989) for HCFC-22 is incorrectly cited by Kanakidou et al. (1995).

279) The H298 and A,B data listed in Table 5.4 of Sander et al. (2011) are inconsistent, with 5 % difference.

280) Kanakidou et al. (1995) assume $H(\mathrm{CClF_2OONO_2}) = H(\mathrm{PAN})$.

281) Erratum for page 274 of Fogg and Sangster (2003): The value in the table is k_{H}, not $\ln k_{\mathrm{H}}$.

282) Haynes (2014) refer to Mackay et al. (1993) as the source but this value cannot be found there.

283) Erratum for page 321 of Fogg and Sangster (2003): Data from Yates and Gan (1998) are cited with a typo. The value at 313.2 K should probably be 4.78×10^{-6}, not 4.78×10^{-2}.

284) Diaz et al. (2005) also cite a Henry's law constant from Pfeifer et al. (2001) even though this species is not mentioned there. There might be a mix up of the different haloanisoles.

285) Erratum for page 285 of Fogg and Sangster (2003): The data in their table looks strange (9.70R) and is not used here.

286) The regression given by Fogg and Sangster (2003) does not produce the data in their table. Thus the regression was recalculated.

287) Kruis and May (1962) present data based on Booth and Jolley (1943). However, these data appear to be incorrect.

288) Booth and Jolley (1943) converted data from Rex (1906) to another unit. However, this was apparently not done correctly.

289) Booth and Jolley (1943) present data from Chancel and Parmentier (1885). However, in that paper only the solubility at an unknown partial pressure of $\mathrm{CS_2}$ was measured.

290) Value extracted from their Figure 46.

291) Value given here as quoted by Booth and Jolley (1943).

292) Value given here as quoted by Loomis (1928).

293) $H' = 6.4\times10^{11}\ \dfrac{\mathrm{mol^2}}{\mathrm{m^6\,Pa}}$

294) It is unclear how Fogg and Sangster (2003) obtained the data. Apparently, limiting activity coefficients γ^{∞} were taken from Trampe and Eckert (1993) but a source for vapor pressure data is not mentioned. Also, the γ^{∞} values listed in the table are different from those found in the original paper.

295) Value given here as quoted by Staudinger and Roberts (2001).

296) Mackay et al. (2006d) list two values for thiobencarb which differ by a large factor. It is unclear which number is correct (if any) and the data is not reproduced here.

297) Extrapolated from data at elevated temperatures.

298) Value at T = 300 K.

299) Wilhelm et al. (1977) and Abraham (1979) are quoted as the source. However, the data cannot be found there.

300) Shon et al. (2005) refer to Petersen et al. (1998) as the source but this value cannot be found there.

301) The value from their experiment 7 at 10 °C is not used in the determination of the temperature dependence because of very different ionic strengths and concentrations for that experiment.

302) Temperature dependence calculated using linear free energy relationships (LFER).

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