

Common name	Molecular formula	$k_{\text{OH}}(298 \text{ K})$ ( $10^{-14} \text{ cm}^3$ $\text{molecule}^{-1}$ $\text{s}^{-1}$ ) <sup>b</sup>	Atmospheric lifetime (years)	stratospheric lifetime (years)	Infrared Absorption spectrum source	Radiative efficiency (RE) ( $\text{W m}^{-2} \text{ ppb}^{-1}$ )	Global warming potential (GWP) 100-yr time horizon
HCFC-21	$\text{CHFCl}_2$	3.0	1.7	~ 35	Sihra et al. (2001)	0.15	148
HCFC-22	$\text{CHF}_2\text{Cl}$	0.49	11.9	161	Sihra et al. (2001)	0.21	1760
HCFC-31	$\text{CH}_2\text{FCl}$	4.1	1.2	~ 35	–	–	–
HCFC-122	$\text{CHCl}_2\text{CClF}_2$	5.1	–	–	Orkin et al. (2003)	0.17	59
HCFC-122a	$\text{CHClFCCl}_2\text{F}$	1.6	–	–	Orkin et al. (2003)	0.21	258
HCFC-123	$\text{CHCl}_2\text{CF}_3$	3.6	1.3	36	Sihra et al. (2001)	0.15	79
HCFC-123a	$\text{CHClFCClF}_2$	1.3	4.0	~ 65	–	0.23	370
HCFC-124	$\text{CHClFCF}_3$	0.90	5.9	111	Sihra et al. (2001)	0.20	527
HCFC-124a	$\text{CHF}_2\text{CClF}_2$	–	~ 9.2	~ 120	Sharpe et al. (2004)	–	–
HCFC-132	$\text{CHClFCHClF}$	–	–	–	Sharpe et al. (2004)	–	–
HCFC-132a	$\text{CHCl}_2\text{CHF}_2$	–	–	–	Sharpe et al. (2004)	–	–
HCFC-132b	$\text{CHCl}_2\text{CHF}_2$	1.7	–	–	–	–	–
HCFC-132c	$\text{CH}_2\text{FCCl}_2\text{F}$	1.23	–	–	Orkin et al. (2003)	0.17	338
HCFC-133a	$\text{CH}_2\text{ClCF}_3$	1.1 <sup>c</sup>	4.45 <sup>c</sup>	103 <sup>c</sup>	Sharpe et al. (2004) Etminan et al. (2014) McGillen et al. (2015)	0.16 <sup>c</sup>	370 <sup>c</sup>
HCFC-141b	$\text{CH}_3\text{CCl}_2\text{F}$	0.58	9.4	72.3	Sihra et al. (2001) Sharpe et al. (2004)	0.16	782
HCFC-142b	$\text{CH}_3\text{CClF}_2$	0.34	18	212	Sihra et al. (2001)	0.19	1980
HCFC-225ca	$\text{CHCl}_2\text{CF}_2\text{CF}_3$	2.5	1.9	44	Sihra et al. (2001)	0.22	127
HCFC-225cb	$\text{CHClFCF}_2\text{CClF}_2$	0.89	5.9	101	Sihra et al. (2001)	0.29	525
HCFC-234fb	$\text{CCl}_2\text{FCH}_2\text{CF}_3$	0.080	~ 45	~ 85	–	–	–
HCFC-243cc	$\text{CH}_3\text{CF}_2\text{CFCl}_2$	0.24	19.5	~ 70	–	–	–