

Reaction	$\varepsilon / \%$	Method and remarks	Reference
$\text{CH}_3\text{Cl} + \text{OH}$	$-264 \pm 45$	experimental: 3.5 m <sup>3</sup> smog chamber at $293 \pm 1$ K; IRMS	Exp. 1 to 3, this study
$\text{CH}_3\text{Cl} + \text{OH}$	$-410 \pm 50$	experimental: smog chamber, long-path FTIR spectroscopy relative to $\text{CH}_3\text{Cl}$ at $298 \pm 2$ K	Sellevåg et al. (2006)
$\text{CH}_3\text{Cl} + \text{OH}$	$-330$ to $-430$	theoretical calculations	Sellevåg et al. (2006)
$\text{CH}_3\text{Cl} + \text{Cl}$	$-280 \pm 11$	experimental: 3.5 m <sup>3</sup> smog chamber at $293 \pm 1$ K; IRMS	Exp. 4, this study
$\text{CH}_3\text{Cl} + \text{Cl}$	$-420 \pm 40$	experimental: smog chamber, long-path FTIR spectroscopy relative to $\text{CH}_3\text{Cl}$ at $298 \pm 2$ K	Sellevåg et al. (2006)
$\text{CH}_3\text{Cl} + \text{Cl}$	$-540$ to $-590$	theoretical calculations	Sellevåg et al. (2006)
$\text{CH}_4 + \text{OH}$	$-205 \pm 6$	experimental: 3.5 m <sup>3</sup> smog chamber at $293 \pm 1$ K; IRMS	Exp. 5, this study
$\text{CH}_4 + \text{OH}$	$-227 \pm 11$	experimental: at 296 K, IRMS and tunable diode laser absorption spectroscopy	Saueressig et al. (2001)
$\text{CH}_4 + \text{OH}$	$-231 \pm 45$	experimental: at 277 K	Gierczak et al. (1997)
$\text{CH}_4 + \text{OH}$	$-251 \pm 10$	ab initio at 298 K	Xiao et al. (1993)
$\text{CH}_4 + \text{OH}$	$-145 \pm 30$	experimental: at 298 K	DeMore et al. (1993)
$\text{CH}_4 + \text{OH}$	$-294 \pm 18$	experimental: smog chamber, long-path FTIR spectroscopy relative to $\text{CH}_3\text{Cl}$ at $298 \pm 2$ K	Sellevåg et al. (2006)
$\text{CH}_4 + \text{OH}$	$-60$ to $-270$	theoretical at 298 K	Sellevåg et al. (2006)