

OH reactant	OH reactivity (kOH) used for calibration	Normalized scaling rate $sr_{\text{CIMS}} \pm 1\sigma$ ( $\text{s}^{-1}$ )	Measured zero $\ln([\text{OH}]_{\text{T1}} / [\text{OH}]_{\text{T2}}) \pm 1\sigma$	Wall loss rate $k_w \pm 1\sigma$ ( $\text{s}^{-1}$ )
Jülich SAPHIR chamber (April 2016)				
Propane, 6 Apr 2016	External flow tube	$9.6 \pm 0.2$	$0.97 \pm 0.02$	$9.3 \pm 0.3$
CO, 7 Apr 2016	Chamber concentration measurements	$9.4 \pm 0.1$	$0.95 \pm 0.03$	$8.9 \pm 0.3$
Pentane, 8 Apr 2016	FZJ LIF kOH measurements	$9.1 \pm 0.1$	$0.89 \pm 0.05$	$8.1 \pm 0.5$
Monoterpenes <sup>a</sup> , 13 Apr 2016	FZJ LIF kOH measurements	$8.8 \pm 0.1$	$0.92 \pm 0.11$	$8.1 \pm 1.0$
CO, 15 Apr 2016	Chamber concentration measurements	$8.7 \pm 0.1$	$0.95 \pm 0.06$	$8.3 \pm 0.5$
Jülich mean $\pm 1\sigma^b$		$9.1 \pm 0.4$	$0.94 \pm 0.03$	$8.6 \pm 0.5$
MOHP (July–December 2016)				
Propane, 18 Jul 2016	External flow tube	$10.1 \pm 0.4$	$0.88 \pm 0.14$	$8.9 \pm 1.5$
Propane, 12 Aug 2016	External flow tube	$9.5 \pm 0.3$	$0.94 \pm 0.04$	$8.9 \pm 0.5$
Propane, 18 Aug 2016	External flow tube	$10.1 \pm 0.1$	$1.08 \pm 0.02$	$10.9 \pm 0.2$
Propane, 24 Nov 2016	External flow tube	$9.5 \pm 0.2$	$0.97 \pm 0.05$	$9.2 \pm 0.5$
Propane, 7 Dec 2016	External flow tube	$9.0 \pm 0.7$	$0.96 \pm 0.05$	$8.6 \pm 0.8$
MOHp mean $\pm 1\sigma^b$		$9.7 \pm 0.5$	$0.97 \pm 0.07$	$9.4 \pm 0.8$