

No.	Compound name	Reaction equation	pH	Rate constant (L mol ⁻¹ s ⁻¹)	Comments	Reference
497	Propionic acid	$\text{H}^\cdot + \text{C}_2\text{H}_5\text{CO}_2\text{H} \longrightarrow \text{H}_2 + \text{CH}_3\text{CHCO}_2\text{H}$		5.7×10^6	Average of 2 values.	
			1	5.9×10^6	<i>e-r.</i> ; esr; Decay of spin polarization, compared with 2-PrOH(7D); 96% H abstr.[730053]; rel. to $k(\text{H}^\cdot + \text{BzOH})$.	710003
			1	5.4×10^6	γ -r.; C.k. with 2-PrOH(7D); rel. to $k(\text{H}^\cdot + \text{BzOH})$.	710017