

No.	Compound name	Reaction equation	pH	Rate constant (L mol ⁻¹ s ⁻¹)	Comments	Reference
174	Acetic acid	$\text{H}^\bullet + \text{CH}_3\text{CO}_2\text{H} \longrightarrow \text{H}_2 + \cdot\text{CH}_2\text{CO}_2\text{H}$		9.8×10^4	Average of 2 values.	
			1	7.7×10^4	e-r.; esr; Decay of spin polarization; compared with $\text{CD}_3\text{CDOHCD}_3$; rel. to $k(\text{H}^\bullet + \text{BzOH})$.	710003
			1	1.2×10^5	γ -r.; C.k. with 2-PrOH(7D); rel. to $k(\text{H}^\bullet + \text{BzOH})$.	710017