

No.	Compound name	Reaction equation	pH	Rate constant (L mol <sup>-1</sup> s <sup>-1</sup> )	Comments	Reference
443	2-Methylpropionate Ion	$\text{H}^\cdot + (\text{CH}_3)_2\text{CHCO}_2^- \longrightarrow \text{H}_2 + (\text{CH}_3)_2\dot{\text{C}}\text{CO}_2^-$			$4.2 \times 10^7$	Average of 2 val
			7	$5.4 \times 10^7$	e-r.; esr; Decay of spin polarization, compared with EtOH. in phosphate buffered soln.; rel. to $k(\text{H}^\cdot + \text{BzOH})$ .	720039
			7	$3.0 \times 10^7$	$\gamma$ -r.; C.k.; rel. to $k(\text{H}^\cdot + (\text{CH}_3)_2\text{CDOH})$ .	660422