

No.	Compound name	Reaction equation	pH	Rate constant (L mol ⁻¹ s ⁻¹)	Comments	Reference
776	Cumene hydroperoxide	$\text{e}_{\text{aq}}^- + \text{C}_6\text{H}_5\text{C}(\text{CH}_3)_2\text{O}_2\text{H} \longrightarrow \text{OH}^- + \text{C}_6\text{H}_5\text{C}(\text{CH}_3)_2\text{O}^\cdot$		4.2×10^9	Average of 2 values.	
			7, 9	4.4×10^9	p.r.; D.k. at 600 nm in soln. contg. 1 mol L ⁻¹ <i>tert</i> -BuOH.	84A160
				4×10^9	p.r.; D.k. at 650 nm in deaerated soln. contg. 0.5 mol L ⁻¹ <i>tert</i> -BuOH.	81A374