

No.	Compound name	Reaction equation	pH	Rate constant (L mol ⁻¹ s ⁻¹)	Comments	Reference
708	tert-Butyl hydroperoxide	$\text{e}_{\text{aq}}^- + (\text{CH}_3)_3\text{COOH} \longrightarrow \text{OH}^- + (\text{CH}_3)_3\text{CO}\cdot$	8.2	1.6×10^{10}	p.r.; D.k. at 680 nm in N ₂ -satd. soln. contg. 6.5×10^{-2} mol L ⁻¹ 2-PrOH.	82A451
				6×10^9	p.r.; D.k. at 650 nm in deaerated soln. contg. 0.5 mol L ⁻¹ <i>tert</i> -BuOH.	81A374