

No.	Compound name	Reaction equation	pH	Rate constant (L mol ⁻¹ s ⁻¹)	Comments	Reference
399	3-(p-Hydroxyphenyl)propionic acid	$\text{H}^\bullet + \text{HOC}_6\text{H}_4\text{CH}_2\text{CH}_2\text{CO}_2\text{H} \longrightarrow$ $4\text{-HOC}_6\text{H}_5(\text{CH}_2)_2\text{CO}_2\text{H}$	0.0	4.0×10^9	p.r.; P.b.k. (H adduct) in soln. contg. 1 mol l ⁻¹ tert-BuOH.	730003
			2.0-2.3	1.7×10^9	p.r.; C.k.; p.b.k. at 320 and 330 nm (H adduct); rel. to $k(\text{H}^\bullet + \text{O}_2)$.	690445