No.	Compound name	Reaction equation	рН	Rate constant $(L \operatorname{mol}^{-1} \operatorname{s}^{-1})$	Comments	Reference
630	Benzoate Ion	$e_{aq}^- + C_6 H_5 CO_2^- \longrightarrow C_6 H_5 CO_2^{\bullet -}$	9-11.5	$3.0\times10^9$	Average of 3 values. p.r.; D.k. at 720 nm in Ar-satd. soln. contg. $0.1 \text{ mol } L^{-1}$ tert-BuOH and $10^{-4}$ - $10^{-2}$ mol $L^{-1}$ benzoate.	85A158
			7.2-7.7	$3.1 \times 10^9$	p.r.; D.k.; at pH 5.35-5.45 and 12.3 $k = 5.4 \times 10^9$ and $2.8 \times 10^9$ (cor.), resp.	650018
			7	$3.5 \times 10^9$	p.r.; D.k.; at pH 11, 14 and 3 mol L <sup>-1</sup> OH <sup>-</sup> $k=3.1\times 10^9, 2.9\times 10^9$ and $2.4\times 10^9, {\rm resp.}$	650047