

No.	Compound name	Reaction equation	pH	Rate constant (L mol <sup>-1</sup> s <sup>-1</sup> )	Comments
359	Benzoate Ion	$\cdot\text{OH} + \text{C}_6\text{H}_5\text{CO}_2^- \longrightarrow \text{HOC}_6\text{H}_5\text{CO}_2^-$		$5.9 \times 10^9$	Selected value.
		6	$6.2 \times 10^9$	p.r.; P.b.k. at 345 nm.	710282
		$\sim 7$	$5.7 \times 10^9$	p.r.; C.k.; rel. to $k(\cdot\text{OH} + \text{Fe}(\text{CN})_6^{4-})$ .	710578
		nat.	$6.1 \times 10^9$	p.r.; P.b.k. at 330 nm.	710578
		7	$5.7 \times 10^9$	p.r.; P.b.k. at 330 nm; cor. for ( $\cdot\text{OH} + \text{OH}$ ) and ( $\text{H} + \text{aromatic}$ ).	680304
		6–9.4	$6.0 \times 10^{10}$	p.r.; P.b.k. at 330 nm; cor. for ( $\cdot\text{OH} + \text{OH}$ ) and ( $\text{H} + \text{aromatic}$ ).	680304
		6–7	$5.5 \times 10^9$	p.r.; C.k.; rel. to $k(\cdot\text{OH} + \text{SCN}^-)$ .	650387