

No.	Compound name	Reaction equation	pH	Rate constant (L mol <sup>-1</sup> s <sup>-1</sup> )	Comments	Reference
23	Hydroperoxide ion	$\text{O}^{\cdot-} + \text{HO}_2^- \longrightarrow \text{O}_2^{\cdot-} + \text{OH}^-$	13	$4 \times 10^8$	Deduced from anal. of data reported in [82A096], [690379], [680298], [687277] and [670132]; see Sect. 6.2.3.; $I = 0.1$ .	