

No.	Compound name	Reaction equation	pH	Rate constant (L mol <sup>-1</sup> s <sup>-1</sup> )	Comments	Reference
333	Hydroperoxide Ion	$\text{e}_{\text{aq}}^- + \text{HO}_2^- \longrightarrow$	13.0	$3.5 \times 10^9$	p.r.; D.k. at 720 nm; soln. contains (4-13) $\times 10^{-4}$ mol L <sup>-1</sup> H <sub>2</sub> O <sub>2</sub> ; $pK(\text{H}_2\text{O}_2) = 11.8$ .	670132