

No.	Compound name	Reaction equation	pH	Rate constant (L mol ⁻¹ s ⁻¹)	Comments	Reference
9.1	Diiodine radical ion	$\text{I}_2^{\cdot-} + \text{e}_{\text{aq}}^- \longrightarrow$		9×10^{10}	f.p.; Estd. from d.k. at 650 nm and 425 nm in 0.2 mol L ⁻¹ KI assuming $k(\text{e}_{\text{aq}}^- + \text{I}^-) = 2.4 \times 10^5$ and $k(\text{I}_2^{\cdot-} + \text{I}_2^{\cdot-}) = 8 \times 10^9$.	79A110
9.2		$\text{I}_2^{\cdot-} + \text{H}^+ \longrightarrow \text{H}^+ + 2\text{I}^-$	3.5–11	1.8×10^7	phot.; estd.	620057