

No.	Compound name	Reaction equation	pH	Rate constant (L mol <sup>-1</sup> s <sup>-1</sup> )	Comments	Reference
616	syn-Azobenzene	$\text{e}_{\text{aq}}^- + \text{C}_6\text{H}_5\text{N}=\text{NC}_6\text{H}_5 \longrightarrow [\text{C}_6\text{H}_5\text{N}=\text{NC}_6\text{H}_5]^-$	14	$3.2 \times 10^{10}$	p.r.; D.k. at 600 nm in soln. contg. 1 mol L <sup>-1</sup> NaOH and 0.1 mol L <sup>-1</sup> MeOH; also p.b.k. at 380 nm.	771169