

No.	Compound name	Reaction equation	pH	Rate constant (L mol <sup>-1</sup> s <sup>-1</sup> )	Comments
1256	Nitrobenzene	$\text{e}_{\text{aq}}^- + \text{C}_6\text{H}_5\text{NO}_2 \longrightarrow \text{C}_6\text{H}_5\text{NO}_2^-$		$5.7 \times 10^{10}$	Average of 7 values
			$3.8 \times 10^{10}$	p.r.; D.k.	85A282
			$3.9 \times 10^{10}$	p.r.; D.k.	84A357
			$2.5 \times 10^{10}$	p.r.; D.k.	84A200
			$3.9 \times 10^{10}$	p.r.; D.k.	79A109
			$3.5 \times 10^{10}$	p.r.; D.k. at 600 nm.	78A131
	~8		$4.2 \times 10^{10}$	p.r.; D.k. at 720 nm in soln. contg. 0.005-0.01 mol L <sup>-1</sup> <i>tert</i> -BuOH.	77A201
			$4.2 \times 10^{10}$	p.r.; D k ; k decreased in H <sub>2</sub> O-ethanol mixtures.	731008