

No.	Compound name	Reaction equation	pH	Rate constant (L mol <sup>-1</sup> s <sup>-1</sup> )	Comments	Reference
15	Americium(III) ion	$\text{e}_{\text{aq}}^- + \text{Am}^{3+} \longrightarrow \text{Am}(\text{II})$	5.8	$1.6 \times 10^8$	p.r.; D.k. at 650 nm in He-satd. soln contg. (0.079-1.24) $\times 10^{-3}$ mol L <sup>-1</sup> Am <sup>3+</sup> and 0.1 mol L <sup>-1</sup> tert-BuOH, and 0.11 mol L <sup>-1</sup> LiClO <sub>4</sub> ; $pK_h = 5.92, 10.7$ ; $I = 0.11$ .	78A044
			6	$3 \times 10^8$	p.r.; P.b.k.; soln. contains $3 \times 10^{-3}$ mol L <sup>-1</sup> Am <sup>3+</sup> and 0.1 mol L <sup>-1</sup> tert-BuOH.	761232