

No.	Compound name	Reaction equation	pH	Rate constant (L mol <sup>-1</sup> s <sup>-1</sup> )	Comments	Reference
3	Americium(III) Ion	$\cdot\text{OH} + \text{Am}^{3+} \longrightarrow \text{OH}^- + \text{Am(IV)}$		$3.6 \times 10^8$	Average of 2 values.	
			5.1	$4.1 \times 10^8$	p.r.; P.b.k. at 320 nm in soln. contg. 0.11 mol L <sup>-1</sup> LiClO <sub>4</sub> .	78A044
			4	$3.0 \times 10^8$	p.r.; P.b.k. in soln. contg. 5 or $3.7 \times 10^{-5}$ mol L <sup>-1</sup> Am <sup>3+</sup> ; at pH 2, 1, 0 $k = 3.4 \times 10^8$ , 1.1 and $1.6 \times 10^8$ , resp.	771130