

No.	Compound name	Reaction equation	pH	Rate constant (L mol ⁻¹ s ⁻¹)	Comments	Reference
221	Samarium(II) Ion	$\cdot\text{OH} + \text{Sm}^{2+} \longrightarrow \text{OH}^- + \text{Sm}^{3+}$		6.1×10^9	Average of 2 values.	
			3-6	6.2×10^9	p.r.; D.k. (Sm^{2+} formed in 5×10^{-2} mol L ⁻¹ Sm^{3+} soln.)	731084
				6×10^9	p.r.; D.k. (Sm^{2+}) in Ar-satd. soln. contg. Sm(III) sulfate.	720065