

No.	Compound name	Reaction equation	pH	Rate constant (L mol ⁻¹ s ⁻¹)	Comments	Reference
300	Tetraamminenickel(II) Ion	$\text{e}_{\text{aq}}^- + \text{Ni}(\text{NH}_3)_4^{2+} \longrightarrow$	11.3	8.4×10^9	p.r.; D.k. at 575 nm; soln. contains 0.67 mol L ⁻¹ NH ₃ and 10 ⁻³ –10 ⁻⁴ mol L ⁻¹ NiSO ₄ ; no. of ligands in complex are unknown, Ni(NH ₃) ₅ ²⁺ and Ni(NH ₃) ₆ ³⁺ are also assumed to be present.	720460