

No.	Compound name	Reaction equation	pH	Rate constant (L mol ⁻¹ s ⁻¹)	Comments	Reference
46	Pentaammine(pyridine)cobalt(III) ion	$\text{OH}^- + \text{Co}(\text{NH}_3)_5\text{py}^{3+} \longrightarrow \text{Co}(\text{NH}_3)_5\text{pyOH}^{3+}$		5.4×10^8	Average of 2 values.	
			5.2	6.5×10^8	p.r.; P.b.k. at 330 nm; independent of pH 3-9.	79A213
			5.9	4.2×10^8	p.r.; P.b.k.; also c.k. with SCN^- .	76A265