

No.	Compound name	Reaction equation	pH	Rate constant (L mol ⁻¹ s ⁻¹)	Comments
53	Pentaammine(benzoato)cobalt(III) Ion	$\text{Co}(\text{NH}_3)_5\text{O}_2\text{CC}_6\text{H}_5^{2+} \longrightarrow [\text{Co}(\text{NH}_3)_5\text{O}_2\text{C}_6\text{H}_5\text{OH}]^{2+}$		5.0×10^9	Average of 2 values.
			6.5×10^9	p.r.; P.b.k. at 345 nm.	710282
			3.5×10^9	p.r.; C.k.; O2-satd.; rel. to $k(\text{OH} + \text{SCN}^-)$.	710282