

No.	Compound name	Reaction equation	pH	Rate constant (L mol ⁻¹ s ⁻¹)	Comments
60	Pentaammine(benzoato)cobalt(III) ion	$\text{H}^+ + \text{Co}(\text{NH}_3)_5\text{O}_2\text{CC}_6\text{H}_5^{2+} \longrightarrow \text{Co}(\text{NH}_3)_5\text{O}_2\text{CC}_6\text{H}_6^{2+}$		1.6×10^9	Average of 2 values
			1.5×10^9	p.r.; P.b.k.	771027
		1.0	1.6×10^9	p.r.; P.b.k. at 345 nm in Ar-satd. soln. contg. 0.01 mol L ⁻¹ MeOH.	710282