

No.	Compound name	Reaction equation	pH	Rate constant (L mol ⁻¹ s ⁻¹)	Comments	Reference
19	Pentaammineaquacobalt(III) Ion	$\text{H}^\bullet + \text{Co}(\text{NH}_3)_5^{3+} \longrightarrow \text{Co}(\text{NH}_3)_5\text{H}_2\text{O}^{2+}$	1	$< 7.0 \times 10^5$	-r.; C.k.; rel. to $k(\text{H}^\bullet + \text{EtOH})$.	660010
				1.8-3.9	4.5×10^5	a.e.d.; Detd. fro