

No.	Compound name	Reaction equation	pH	Rate constant (L mol ⁻¹ s ⁻¹)	Comments	Reference
20	Pentaamminehydroxycobalt(III) ion	$\text{H}^\cdot + \text{Co}(\text{NH}_3)_5\text{OH}^{2+} \longrightarrow \text{Co}(\text{NH}_3)_5\text{OH}^+$		3.0×10^7	Average of 2 values.	
			6.00-11.0	3.1×10^7	e.d.; Detd. from dose rate of H atoms and amount of redn. product.	050014
			7.5	2.8×10^7	y-r.; C.k.; rel. to $k(\text{H}^\cdot + \text{CH}_3\text{CDOHCH}_3)$.	650085