

No.	Compound name	Reaction equation	pH	Rate constant (L mol <sup>-1</sup> s <sup>-1</sup> )	Comments	Reference
42	Pentaamminecyanocobalt(III) Ion	$\text{H}^+ [\text{Co}(\text{NH}_3)_5\text{CN}]^{2+} \longrightarrow [\text{Co}(\text{NH}_3)_5\text{CN}^+]$		$3.5 \times 10^7$	Average of 2 values.	
				1	$2.7 \times 10^7$	$\gamma$ -r.; C.k.; rel. to
				4-6	$4.2 \times 10^7$	$\gamma$ -r.; C.k.; rel. to