

No.	Compound name	Reaction equation	pH	Rate constant (L mol <sup>-1</sup> s <sup>-1</sup> )	Comments	Reference
34	Pentaamminefluorocobalt(III) Ion	$\text{H}^\bullet + \text{Co}(\text{NH}_3)_5\text{F}^{2+} \longrightarrow \text{Co}(\text{NH}_3)_5\text{F}^+$	1	$< 1.4 \times 10^6$	$\gamma$ -r.; C.k.; rel. to $\mathcal{K}(\text{H}^\bullet + \text{EtOH})$ .	660010