

| No. | Compound name | Reaction equation | pH | Rate constant (L mol ⁻¹ s ⁻¹) | Comments | Reference |
|-----|----------------------------|--|------|---|---|-----------|
| 82 | Pentaamminecobalt(III) ion | $\text{e}_{\text{aq}}^- + \text{Co}(\text{NH}_3)_5^{3+} \longrightarrow$ | | 6.8×10^{10} | Average of 3 values. | |
| | | | 10.0 | 6.0×10^{10} | p.r.; D.k. at 575 nm, counterion ClO_4^- . | 690428 |
| | | | 4.9 | 8.2×10^{10} | p.r.; D.k.; counterion ClO_4^- , $I = 6 \times 10^{-5}$, $k_{\text{obs}} = 8.1 \times 10^{10}$; k cor. for I . | 680295 |
| | | | | 6.2×10^{10} | p.r.; D.k.; counterion ClO_4^- . | 650044 |