

No.	Compound name	Reaction equation	pH	Rate constant (L mol <sup>-1</sup> s <sup>-1</sup> )	Comments	Reference
121	Pentaammine(chloro)osmium(III) Ion	$\text{H}^+ + \text{Os}(\text{NH}_3)_5\text{Cl}^{2+} \longrightarrow \text{H}^+ + 2 \text{Os}(\text{NH}_3)_5\text{Cl}^+$		$\sim 5 \times 10^9$	p.r.; P.b.k. (transient abs. $\sim 305$ nm) in Ar-satd. soln. contg. $\text{CF}_3\text{SO}_3\text{H}$ , $0.1 \text{ mol L}^{-1}$ tert-BuOH and $10^{-4} \text{ mol L}^{-1}$ complex.	82A145