

No.	Compound name	Reaction equation	pH	Rate constant (L mol ⁻¹ s ⁻¹)	Comments	Reference
199	Pentaammine(dinitrogen)ruthenium(II) Ion	$\text{OH}^- + \text{Ru}(\text{NH}_3)_5\text{N}_2^{2+} \longrightarrow \text{OH}^- + \text{Ru}(\text{NH}_3)_5\text{N}_2^{3+}$		5.4×10^9	Average of 2 values.	
				6.1×10^9	p.r.; D.k. at 222 nm (substrate).	82A135
				4.8×10^9	p.r.; P.b.k. at 440-44 nm.	710234