

No.	Compound name		Reaction equation	pH	Rate constant (L mol ⁻¹ s ⁻¹)	Comments	Reference
142	Nitrosopentaammine nium(III) Ion	ruthe-	$\text{H} \cdot + \text{Ru}(\text{NH}_3)_5\text{NO}^{3+} \longrightarrow \text{H}^+ + \text{Ru}(\text{NH}_3)_5\text{NO}^{2+}$	<1	4.0×10^8	p.r.; P.b.k. at 280 nm in Ar-satd. soln. contg. 0.5 mol L ⁻¹ <i>tert</i> -BuOH.	751049