

No.	Compound name	Reaction equation	pH	Rate constant (L mol ⁻¹ s ⁻¹)	Comments	Reference
90	Tris(2,2'-bipyridine)cobalt(III) Ion	$\text{e}_{\text{aq}}^- + \text{Co}(\text{bpy})_3^{3+} \longrightarrow \text{Co}(\text{bpy})_3^{2+}$		8.3×10^{10}	Average of 2 values.	
		$\text{e}_{\text{aq}}^- + \text{Co}(\text{bpy})_3^{3+} \longrightarrow \text{Co}(\text{bpy})_3^{2+}$	6.9	8.3×10^{10}	p.r.; D.k. at 700 nm in Ar-satd. soln. contg. 0.1 mol L ⁻¹ tert-BuOH.	8.3×10^{10} 79A034
		$\text{e}_{\text{aq}}^- + \text{Co}(\text{bpy})_3^{3+} \longrightarrow \text{Co}(\text{bpy})_3^{2+}$	~ 7	8.3×10^{10}	p.r.; D.k. at 690 nm; counterion ClO ₄ ⁻ ; soln. contains < 10 ⁻³ mol L ⁻¹ H ₂ .	690186