

No.	Compound name	Reaction equation	pH	Rate constant (L mol ⁻¹ s ⁻¹)	Comments	Reference
67	Bis(2,2'-bipyridine)cobalt(II) Ion	$\text{e}_{\text{aq}}^- + \text{Co}(\text{bpy})_2^{2+} \longrightarrow \text{Co}(\text{bpy})_2^+$		5.3×10^{10}	p.r.; D.k. at 650 nm in soln. contg. 5×10^{-5} mol L ⁻¹ Co ²⁺ , 0.15 mol L ⁻¹ EtOH and 0.005 mol L ⁻¹ phosphate buffer and varied [bpy]	85A034