

No.	Compound name	Reaction equation	pH	Rate constant (L mol ⁻¹ s ⁻¹)	Comments	Reference
140	Tris(2,2'-bipyridine)ruthenium(II) ion	$\text{H}^+ + \text{Ru}(\text{bpy})_3^{2+} \longrightarrow \text{Ru}(\text{bpy})_2(\text{bpyH})^{2+}$	~ 2	9.5×10^9	p.r.; P.b.k. at 420 nm; product suggested to be H adduct on ligand ($\varepsilon_{420} = 18,000 \text{ L mol}^{-1} \text{ cm}^{-1}$).	720381