

No.	Compound name	Reaction equation	pH	Rate constant (L mol <sup>-1</sup> s <sup>-1</sup> )	Comments	Reference
143	Tris(2,2'-bipyridine)ruthenium(III) Ion	$\text{H}^\bullet + \text{Ru}(\text{bpy})_3^{3+} \longrightarrow \text{H}^+ + \text{Ru}(\text{bpy})_3^{2+}$	$\sim 0$	$4.5 \times 10^9$	p.r.; P.b.k. at 455 nm in Ar-satd. soln. contg. <i>N</i> H <sub>2</sub> SO <sub>4</sub> and 0.5 mol L <sup>-1</sup> tert-BuOH.	78A070