

| No. | Compound name                           | Reaction equation  | pH  | Rate constant<br>(L mol <sup>-1</sup> s <sup>-1</sup> ) | Comments   | Reference |
|-----|---|--|-----|---|--|-----------|
| 414 | Tris(2,2'-bipyridine)ruthenium(III) Ion | $\text{e}_{\text{aq}}^- + \text{Ru}(\text{bpy})_3^{3+} \longrightarrow \text{Ru}(\text{bpy})_3^{2+}$ | 4.0 | $5.2 \times 10^{10}$                                    | p.r.; D.k. at 600 nm, as well as p.b.k. at 365 nm, as well as emission p.b.k. at 600 nm; soln. contg. 0.5 mol L <sup>-1</sup> <i>tert</i> -BuOH; excited states of the product are formed. | 78AU070   |