

| No.  | Compound name        | Reaction equation  | pH  | Rate constant<br>(L mol <sup>-1</sup> s <sup>-1</sup> ) | Comments   | Reference |
|------|----------------------|--|-----|---|--|-----------|
| 1227 | Methyl thioglycolate | $\text{e}_{\text{aq}}^- + \text{HSCH}_2\text{CO}_2\text{CH}_3 \longrightarrow \text{CH}_2\text{CO}_2\text{CH}_3 + \text{HS}^-$ | 5.2 | $1.4 \times 10^{10}$                                    | p.r.; D.k. at 700 nm in soln. contg. $\sim 0.1 \text{ mol L}^{-1}$ tert-BuOH; $pK_{\text{a}} = 7.8$ ; at pH 10.3 $k = 1.4 \times 10^9$ . | 730090    |