

| No. | Compound name    | Reaction equation   | pH                   | Rate constant<br>(L mol <sup>-1</sup> s <sup>-1</sup> ) | Comments             |
|-----|------------------|---|----------------------|---|----------------------|
| 279 | Permanganate Ion | $\text{e}_{\text{aq}}^- + \text{MnO}_4^- \longrightarrow \text{MnO}_4^{2-}$ |                      | $2.6 \times 10^{10}$                                    | Average of 2 values. |
|     |                  |   | $3 \times 10^{10}$   | p.r.; D.k.  | 650044               |
|     |                  |   | $2.2 \times 10^{10}$ | p.r.; D.k.; at pH 13 $k = 3.7 \times 10^{10}$ .         | 640046               |