| No. | Compound name | Reaction equation | pH | Rate constant ($L\,mol^{-1}\,s^{-1}$) | Comments | Reference |
|---|---|---|---|---|---|---|
| 11.1 | Nitrogen dioxide | $NO_2 + \cdot OH \longrightarrow HO_2NO$ | | $1 \times 10^{10}$ | f.p.; Estd. from condy. study in $5 \times 10^{-4}$ mol $L^{-1}$ $HNO_3$; rel. to $k(\cdot OH + \cdot OH)$. | 80A366 |
| | | | 9 | $1.3 \times 10^9$ | p.r.; Meas. buildup of abs. at 302 nm in $NO_3^-$ soln.; calcn. involves $k(\cdot OH + \cdot OH) = 0.6 \times 10^{10}$ and $k({NO_3}^{2-} + H_2O \longrightarrow NO_2 + 2\,OH^-) = 5.5 \times 10^4$ $s^{-1}$. | 700151 |