

| No. | Compound name           | Reaction equation   | pH       | Rate constant<br>(L mol <sup>-1</sup> s <sup>-1</sup> ) | Comments   | Reference |
|-----|-------------------------|---|----------|---|--|-----------|
| 522 | Di-tert-butyl disulfide | $\cdot\text{OH} + [(\text{CH}_3)_3\text{C}]_2\text{S}_2 \longrightarrow \text{OH}^- + [(\text{CH}_3)_3\text{CS}]_2^+$ | $\sim 4$ | $6.5 \times 10^9$                                       | p.r.; P.b.k.; obs. radical cation formn. ( $\sim 50\%$ OH addn.); same rate constant by c.k. with $\text{SCN}^-$ . | 751089    |