

| No. | Compound name             | Reaction equation  | pH  | Rate constant<br>(L mol <sup>-1</sup> s <sup>-1</sup> ) | Comments  | Reference |
|-----|---------------------------|--|-----|---|---|-----------|
| 162 | Dichlorothallium(III) ion | $\text{H} \cdot + \text{TiCl}_2^{2+} \longrightarrow \text{HCl} + \text{TiCl}^+$ | ~ 0 | $2 \times 10^9$   | p.r.; P.b.k. at 280 nm.   | 741038    |
| 163 | Thallium(III) chloride    | $\text{H} \cdot + \text{TlCl}_3 \longrightarrow \text{HCl} + \text{TlCl}_2$      | ~ 0 | $2 \times 10^9$   | p.r.; P.b.k. at 280 nm in soln. contg. 0.99 mol L <sup>-1</sup> HClO <sub>4</sub> , $7.3 \times 10^{-3}$ mol L <sup>-1</sup> HCl and $3 \times 10^{-4}$ mol L <sup>-1</sup> Tl(III); ligand abstr. mechanism proposed; same rate constant as for H + TlCl <sub>2</sub> <sup>+</sup> . | 741038    |