

| No. | Compound name | Reaction equation                                   | pH  | Rate constant<br>(L mol <sup>-1</sup> s <sup>-1</sup> ) | Comments   | Reference |
|-----|---------------|---|-----|---|--|-----------|
| 4   | Bromide ion   | H <sup>•</sup> + Br <sup>-</sup> → HBr <sup>-</sup> | ~ 7 | 2.8 × 10 <sup>7</sup>                                   | γ-r.; C.k.; obs. <i>G</i> (H <sub>2</sub> ); rel. to <i>k</i> (H <sup>•</sup> + HCO <sub>2</sub> <sup>-</sup> ). | 720264    |