

No.	Compound name	Reaction equation	pH	Rate constant (L mol <sup>-1</sup> s <sup>-1</sup> )	Comments	Reference
11	Hydrogen	$\text{O}^{\cdot -} + \text{H}_2 \longrightarrow \text{H}^{\cdot} + \text{OH}^-$	13.3	$8 \times 10^7$	p.r.; Calcd. from effect of H <sub>2</sub> , concn. (1-100 atm) on d.k. at 578 nm ( $e_{aq}^-$ ).	650009