

No.	Compound name	Reaction equation	pH	Rate constant (L mol ⁻¹ s ⁻¹)	Comments	Reference
99	Manganese(II) Ions	$\text{H}^\bullet + \text{Mn}^{2+} \longrightarrow \text{H}^+ + \text{Mn}^+$	<0	6.6×10^8	p.r.; P.b.k. at 290 nm in 6 mol L ⁻¹ H ₂ SO ₄ ; extrapolated from measurements at ~ 200–250 K.	751197