

No.	Compound name	Reaction equation	pH	Rate constant (L mol <sup>-1</sup> s <sup>-1</sup> )	Comments	Reference
147	Peroxodisulfate Ion	$\text{H}^\bullet + \text{S}_2\text{O}_8^{2-} \longrightarrow \text{SO}_4^{2-} + \text{HSO}_4^-$	$\sim 0$	$2.5 \times 10^7$	$\gamma$ -r.; C.k.; obs. $G(\text{Ce}^{\text{III}})$ in ceric - cerous system; rel. to $k(\text{H}^\bullet + \text{O}_2)$ .	700169