No.	Compound name	Reaction equation	pH	Rate constant ($L\,mol^{-1}\,s^{-1}$)	Comments	Reference
418	Sulfur hexafluoride	$e_{aq}^- + SF_6 \longrightarrow SF_5^\bullet + F^-$	~ 7	1.6×10^{10}	p.r.; D.k. in Ar-satd. soln.; overall reaction consists of fast steps $\rightarrow SF_5 + F^-$, $SF_5 + 2H_2O \rightarrow OH + SF_4 + F^- + H_3O^+$, followed by slow hydrolysis: $SF_4 + 9H_2O \rightarrow SO_3^{2-} + 4F^- + 6H_3O^+$ [700107].	680159