Standard Reduction Potentials in Aqueous Solution at 25° C

Half-reaction			$E^{\circ}(V)$
$F_2(g) + 2e^-$	\rightarrow	2 F	2.87
$Co^{3+} + e^{-}$	\rightarrow	Co ²⁺	1.82
$Au^{3+} + 3e^{-}$	>	Au(s)	1.50
$Cl_2(g) + 2e^-$	\rightarrow	2 CI-	1.36
${ m O}_2(g) + 4~{ m H}^+ + 4~e^-$	\rightarrow	2 H ₂ O(l)	1.23
$Br_2(l) + 2e^-$	\rightarrow	2 Br-	1.07
$2 \text{ Hg}^{2+} + 2 e^{-}$	\rightarrow	Hg22+	0.92
$Hg^{2+} + 2e^{-}$	\rightarrow	Hg(l)	0.85
$Ag^{+} + e^{-}$	\rightarrow	Ag(s)	0.80
$Hg_2^{2+} + 2e^-$	\rightarrow	2 Hg(I)	0.79
$Fe^{3+} + e^{-}$	\rightarrow	Fe ²⁺	0.77
$I_2(s) + 2e^-$	\rightarrow	2 I-	0.53
$Cu^{+} + e^{-}$	\rightarrow	Cu(s)	0.52
$Cu^{2+} + 2e^{-}$	\rightarrow	Cu(s)	0.34
$Cu^{2+} + e^{-}$	\rightarrow	Cu+	0.15
$\operatorname{Sn}^{4+} + 2e^{-}$	\rightarrow	Sn ²⁺	0.15

Standard Potentials In Aqueous Solution

Cynthia G. Zoski

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