# Table of Standard Reduction Potentials

| Cathode (Reduction) | Half Reaction Standard Potential $E^0$ (V) |
|---|---|
| $Li^+_{(aq)} + e^- \rightarrow Li_{(s)}$ | -3.0401 |
| $Cs^+_{(aq)} + e^- \rightarrow Cs_{(s)}$ | -3.026 |
| $Rb^+_{(aq)} + e^- \rightarrow Rb_{(s)}$ | -2.98 |
| $K^+_{(aq)} + e^- \rightarrow K_{(s)}$ | -2.931 |
| $Ba^{2+}_{(aq)} + 2\ e^- \rightarrow Ba_{(s)}$ | -2.912 |
| $Sr^{2+}_{(aq)} + 2\ e^- \rightarrow Sr_{(s)}$ | -2.89 |
| $Ca^{2+}_{(aq)} + 2\ e^- \rightarrow Ca_{(s)}$ | -2.868 |
| $Na^+_{(aq)} + e^- \rightarrow Na_{(s)}$ | -2.71 |
| $Mg^{2+}_{(aq)} + 2\ e^- \rightarrow Mg_{(s)}$ | -2.372 |
| $Al^{3+}_{(aq)} + 3\ e^- \rightarrow Al_{(s)}$ | -1.662 |
| $Mn^{2+}_{(aq)} + 2\ e^- \rightarrow Mn_{(s)}$ | -1.185 |
| $2\ H_2O_{(\ell)} + 2\ e^- \rightarrow H_{2\ (g)} + 2\ OH^-_{(aq)}$ | -0.8277 |
| $Zn^{2+}_{(aq)} + 2\ e^- \rightarrow Zn_{(s)}$ | -0.7618 |
| $Cr^{3+}_{(aq)} + 3\ e^- \rightarrow Cr_{(s)}$ | -0.744 |
| $Cd^{2+}_{(aq)} + 2\ e^- \rightarrow Cd_{(s)}$ | -0.403 |
| $Co^{2+}_{(aq)} + 2\ e^- \rightarrow Co_{(s)}$ | -0.28 |
| $Ni^{2+}_{(aq)} + 2\ e^- \rightarrow Ni_{(s)}$ | -0.257 |
| $Sn^{2+}_{(aq)} + 2\ e^- \rightarrow Sn_{(s)}$ | -0.1375 |
| $Pb^{2+}_{(aq)} + 2\ e^- \rightarrow Pb_{(s)}$ | -0.1262 |
| $2\ H^+_{(aq)} + 2\ e^- \rightarrow H_{2\ (g)}$ | 0 |
| $Sn^{4+}_{(aq)} + 2\ e^- \rightarrow Sn^{2+}_{(aq)}$ | 0.151 |
| $Cu^{2+}_{(aq)} + e^- \rightarrow Cu^+_{(aq)}$ | 0.153 |
| $AgCl_{(s)} + e^- \rightarrow Ag_{(s)} + Cl^-_{(aq)}$ | 0.22233 |
| $ClO_3^-{}_{(aq)} + H_2O_{(\ell)} + 2\ e^- \rightarrow ClO_2^-{}_{(aq)} + 2\ OH^-_{(aq)}$ | 0.33 |
| $Cu^{2+}_{(aq)} + 2\ e^- \rightarrow Cu_{(s)}$ | 0.3419 |
| $ClO_4^-{}_{(aq)} + H_2O_{(\ell)} + 2\ e^- \rightarrow ClO_3^-{}_{(aq)} + 2\ OH^-_{(aq)}$ | 0.36 |
| $Cu^+_{(aq)} + e^- \rightarrow Cu_{(s)}$ | 0.521 |
| $I_{2\ (s)} + 2\ e^- \rightarrow 2\ I^-_{(aq)}$ | 0.5355 |
| $MnO_4^-{}_{(aq)} + 2\ H2O_{(\ell)} + 3\ e^- \rightarrow MnO2_{(s)} + 4\ OH^-$ | 0.595 |

| | |
|---|---|
| $ClO_2^-{}_{(aq)} + H2O_{(\ell)} + 2\ e^- \rightarrow ClO^-{}_{(aq)} + 2\ OH^-{}_{(aq)}$ | 0.66 |
| $Fe^{3+}{}_{(aq)} + e^- \rightarrow Fe^{2+}{}_{(aq)}$ | 0.771 |
| $Hg_2^{2+}{}_{(aq)} + 2\ e^- \rightarrow 2Hg_{(\ell)}$ | 0.7973 |
| $Ag^+{}_{(aq)} + e^- \rightarrow Ag_{(s)}$ | 0.7996 |
| $ClO^-{}_{(aq)} + H_2O_{(\ell)} + 2\ e^- \rightarrow Cl^-{}_{(aq)} + 2\ OH^-{}_{(aq)}$ | 0.81 |
| $Hg^{2+}{}_{(aq)} + 2\ e^- \rightarrow Hg_{(\ell)}$ | 0.851 |
| $2\ Hg^{2+}{}_{(aq)} + 2\ e^- \rightarrow Hg_2^{2+}{}_{(aq)}$ | 0.92 |
| $NO_3^-{}_{(aq)} + 4\ H^+{}_{(aq)} + 3\ e^- \rightarrow NO_{(g)} + 2\ H_2O_{(\ell)}$ | 0.957 |
| $Br_{2\ (\ell)} + 2\ e^- \rightarrow 2\ Br^-{}_{(aq)}$ | 1.066 |
| $O_{2\ (g)} + 4\ H^+{}_{(aq)} + 4\ e^- \rightarrow 2\ H_2O_{(\ell)}$ | 1.229 |
| $Cr_2O_7^{2-}{}_{(aq)} + 14\ H^+{}_{(aq)} + 6\ e^- \rightarrow 2\ Cr^{3+}{}_{(aq)} + 7\ H_2O_{(\ell)}$ | 1.232 |
| $Cl_{2\ (g)} + 2\ e^- \rightarrow 2Cl^-{}_{(aq)}$ | 1.35827 |
| $MnO_4^-{}_{(aq)} + 8\ H^+{}_{(aq)} + 5\ e^- \rightarrow Mn^{2+}{}_{(aq)} + 4\ H_2O_{(\ell)}$ | 1.507 |
| $MnO_4^-{}_{(aq)} + 4\ H^+{}_{(aq)} + 3\ e^- \rightarrow MnO_{2\ (s)} + 2\ H_2O_{(\ell)}$ | 1.679 |
| $Ce^{4+}{}_{(aq)} + e^- \rightarrow Ce^{3+}{}_{(aq)}$ | 1.72 |
| $H_2O_{2\ (aq)} + 2\ H^+{}_{(aq)} + 2\ e^- \rightarrow 2\ H_2O_{(\ell)}$ | 1.776 |
| $Co^{3+}{}_{(aq)} + e^- \rightarrow Co^{2+}{}_{(aq)}$ | 1.92 |
| $S_2O_8^{2-}{}_{(aq)} + 2e^- \rightarrow 2\ SO_4^{2-}{}_{(aq)}$ | 2.01 |
| $O_{3\ (g)} + 2\ H^+{}_{(aq)} + 2\ e^- \rightarrow O_{2\ (g)} + H_2O_{(\ell)}$ | 2.076 |
| $F_{2\ (g)} + 2\ e^- \rightarrow 2\ F^-{}_{(aq)}$ | 2.866 |