

**TABLE OF OXIDIZING AND REDUCING AGENTS**

<b>Oxidizing Agents (strong)</b>	<b>Reducing Agents (weak)</b>	<b><math>E^\circ</math> (volts)</b>
$F_2(g) + 2e^-$	$\rightleftharpoons 2F^-(aq)$	+2.87
$O_3(g) + 2H^+(aq) + 2e^-$	$\rightleftharpoons O_2(g) + H_2O(l)$	+2.07
$S_2O_8^{2-}(aq) + 2e^-$	$\rightleftharpoons 2SO_4^{2-}(aq)$	+2.01
$Co^{3+}(aq) + e^-$	$\rightleftharpoons Co^{2+}(aq)$	+1.808
$H_2O_2(aq) + 2H^+(aq) + 2e^-$	$\rightleftharpoons 2H_2O(l)$	+1.776
$PbO_2(s) + HSO_4^-(aq) + 3H^+(aq) + 2e^-$	$\rightleftharpoons PbSO_4(s) + 2H_2O(l)$	+1.682
$Ce^{4+}(aq) + e^-$	$\rightleftharpoons Ce^{3+}(aq)$	+1.61
$MnO_4^-(aq) + 8H^+(aq) + 5e^-$	$\rightleftharpoons Mn^{2+}(aq) + 4H_2O(l)$	+1.51
$Au^{3+}(aq) + 3e^-$	$\rightleftharpoons Au(s)$	+1.498
$Cl_2(g) + 2e^-$	$\rightleftharpoons 2Cl^-(aq)$	+1.3595
$Cr_2O_7^{2-}(aq) + 14H^+(aq) + 6e^-$	$\rightleftharpoons 2Cr^{3+}(aq) + 7H_2O(l)$	+1.33
$MnO_2(s) + 4H^+(aq) + 2e^-$	$\rightleftharpoons Mn^{2+}(aq) + 2H_2O(l)$	+1.23
$O_2(g) + 4H^+(aq) + 4e^-$	$\rightleftharpoons 2H_2O(l)$	+1.229
$IO_3^-(aq) + 6H^+(aq) + 5e^-$	$\rightleftharpoons \frac{1}{2}I_2(s) + 3H_2O(l)$	+1.20
$Br_2(l) + 2e^-$	$\rightleftharpoons 2Br^-(aq)$	+1.065
$NO_3^-(aq) + 4H^+(aq) + 3e^-$	$\rightleftharpoons NO(g) + 2H_2O(l)$	+0.96
$2Hg^{2+}(aq) + 2e^-$	$\rightleftharpoons Hg_2^{2+}(aq)$	+0.920
$Hg^{2+}(aq) + 2e^-$	$\rightleftharpoons Hg(l)$	+0.854
$2NO_3^-(aq) + 4H^+(aq) + 2e^-$	$\rightleftharpoons N_2O_4(g) + 2H_2O(l)$	+0.803
$Ag^+(aq) + e^-$	$\rightleftharpoons Ag(s)$	+0.7991
$Hg_2^{2+}(aq) + 2e^-$	$\rightleftharpoons 2Hg(l)$	+0.788
$Fe^{3+}(aq) + e^-$	$\rightleftharpoons Fe^{2+}(aq)$	+0.771
$O_2(g) + 2H^+(aq) + 2e^-$	$\rightleftharpoons H_2O_2(aq)$	+0.6824
$MnO_4^-(aq) + e^-$	$\rightleftharpoons MnO_4^{2-}(aq)$	+0.564
$I_2(s) + 2e^-$	$\rightleftharpoons 2I^-(aq)$	+0.5355
$Cu^+(aq) + e^-$	$\rightleftharpoons Cu(s)$	+0.521
$Fe(CN)_6^{3-}(aq) + e^-$	$\rightleftharpoons Fe(CN)_6^{4-}(aq)$	+0.361
$Cu^{2+}(aq) + 2e^-$	$\rightleftharpoons Cu(s)$	+0.337
$HSO_4^-(aq) + 3H^+(aq) + 2e^-$	$\rightleftharpoons SO_2(g) + 2H_2O(l)$	+0.172
$Cu^{2+}(aq) + e^-$	$\rightleftharpoons Cu^+(aq)$	+0.158
$Sn^{4+}(aq) + 2e^-$	$\rightleftharpoons Sn^{2+}(aq)$	+0.154
$S(s) + 2H^+(aq) + 2e^-$	$\rightleftharpoons H_2S(aq)$	+0.142
$S_4O_6^{2-}(aq) + 2e^-$	$\rightleftharpoons 2S_2O_3^{2-}(aq)$	+0.09
$2H^+(aq) + 2e^-$	$\rightleftharpoons H_2(g)$	0.000
$Pb^{2+}(aq) + 2e^-$	$\rightleftharpoons Pb(s)$	-0.126
$Sn^{2+}(aq) + 2e^-$	$\rightleftharpoons Sn(s)$	-0.136
$Ni^{2+}(aq) + 2e^-$	$\rightleftharpoons Ni(s)$	-0.250
$Co^{2+}(aq) + 2e^-$	$\rightleftharpoons Co(s)$	-0.277
$PbSO_4(s) + H^+(aq) + 2e^-$	$\rightleftharpoons Pb(s) + HSO_4^-(aq)$	-0.356
$Cd^{2+}(aq) + 2e^-$	$\rightleftharpoons Cd(s)$	-0.403
$Cr^{3+}(aq) + e^-$	$\rightleftharpoons Cr^{2+}(aq)$	-0.408
$Fe^{2+}(aq) + 2e^-$	$\rightleftharpoons Fe(s)$	-0.4402
$Zn^{2+}(aq) + 2e^-$	$\rightleftharpoons Zn(s)$	-0.7628
$2H_2O(l) + 2e^-$	$\rightleftharpoons H_2(g) + 2OH^-(aq)$	-0.828
$Mn^{2+}(aq) + 2e^-$	$\rightleftharpoons Mn(s)$	-1.180
$Al^{3+}(aq) + 3e^-$	$\rightleftharpoons Al(s)$	-1.676
$Mg^{2+}(aq) + 2e^-$	$\rightleftharpoons Mg(s)$	-2.375
$Na^+(aq) + e^-$	$\rightleftharpoons Na(s)$	-2.712
$Ca^{2+}(aq) + 2e^-$	$\rightleftharpoons Ca(s)$	-2.76
$K^+(aq) + e^-$	$\rightleftharpoons K(s)$	-2.924
$Li^+(aq) + e^-$	$\rightleftharpoons Li(s)$	-3.045