

Table E.13 Les potentiels standards de réduction

Demi-réaction de réduction	E° (V)
$F_{2(g)} + 2e^- \rightleftharpoons 2F^-_{(aq)}$	2,866
$Co^{3+}_{(aq)} + e^- \rightleftharpoons Co^{2+}_{(aq)}$	1,92
$H_2O_{2(aq)} + 2H^+_{(aq)} + 2e^- \rightleftharpoons 2H_2O_{(l)}$	1,776
$Ce^{4+}_{(aq)} + e^- \rightleftharpoons Ce^{3+}_{(aq)}$	1,72
$PbO_{2(s)} + 4H^+_{(aq)} + SO_4^{2-}_{(aq)} + 2e^- \rightleftharpoons PbSO_{4(s)} + H_2O_{(l)}$	1,691
$MnO_4^-_{(aq)} + 8H^+_{(aq)} + 5e^- \rightleftharpoons Mn^{2+}_{(aq)} + 4H_2O_{(l)}$	1,507
$Au^{3+}_{(aq)} + 3e^- \rightleftharpoons Au_{(s)}$	1,498
$PbO_{2(s)} + 4H^+_{(aq)} + 2e^- \rightleftharpoons Pb^{2+}_{(aq)} + 2H_2O_{(l)}$	1,455
$Cl_{2(g)} + 2e^- \rightleftharpoons 2Cl^-_{(aq)}$	1,358
$Cr_2O_7^{2-}_{(aq)} + 14H^+_{(aq)} + 6e^- \rightleftharpoons 2Cr^{3+}_{(aq)} + 7H_2O_{(l)}$	1,232
$O_{2(g)} + 4H^+_{(aq)} + 4e^- \rightleftharpoons 2H_2O_{(l)}$	1,229
$MnO_{2(s)} + 4H^+_{(aq)} + 2e^- \rightleftharpoons Mn^{2+}_{(aq)} + 2H_2O_{(l)}$	1,224
$IO_3^-_{(aq)} + 6H^+_{(aq)} + 6e^- \rightleftharpoons I^-_{(aq)} + 3H_2O_{(l)}$	1,085
$Br_{2(l)} + 2e^- \rightleftharpoons 2Br^-_{(aq)}$	1,066
$AuCl_4^-_{(aq)} + 3e^- \rightleftharpoons Au_{(s)} + 4Cl^-_{(aq)}$	1,002
$NO_3^-_{(aq)} + 4H^+_{(aq)} + 3e^- \rightleftharpoons NO_{(g)} + 2H_2O_{(l)}$	0,957
$2Hg^{2+}_{(aq)} + 2e^- \rightleftharpoons Hg_2^{2+}_{(aq)}$	0,920
$Ag^+_{(aq)} + e^- \rightleftharpoons Ag_{(s)}$	0,800
$Hg_2^{2+}_{(aq)} + 2e^- \rightleftharpoons 2Hg_{(l)}$	0,797
$Fe^{3+}_{(aq)} + e^- \rightleftharpoons Fe^{2+}_{(aq)}$	0,771
$O_{2(g)} + 2H^+_{(aq)} + 2e^- \rightleftharpoons H_2O_{2(aq)}$	0,695
$I_{2(s)} + 2e^- \rightleftharpoons 2I^-_{(aq)}$	0,536
$Cu^+_{(aq)} + e^- \rightleftharpoons Cu_{(s)}$	0,521
$O_{2(g)} + 2H_2O_{(l)} + 4e^- \rightleftharpoons 4OH^-_{(aq)}$	0,401
$Cu^{2+}_{(aq)} + 2e^- \rightleftharpoons Cu_{(s)}$	0,342
$AgCl_{(s)} + e^- \rightleftharpoons Ag_{(s)} + Cl^-_{(aq)}$	0,222
$4H^+_{(aq)} + SO_4^{2-}_{(aq)} + 2e^- \rightleftharpoons H_2SO_{3(aq)} + H_2O_{(l)}$	0,172
$Cu^{2+}_{(aq)} + e^- \rightleftharpoons Cu^+_{(aq)}$	0,153
$2H^+_{(aq)} + 2e^- \rightleftharpoons H_{2(g)}$	0,000
$Fe^{3+}_{(aq)} + 3e^- \rightleftharpoons Fe_{(s)}$	-0,037
$Pb^{2+}_{(aq)} + 2e^- \rightleftharpoons Pb_{(s)}$	-0,126
$Sn^{2+}_{(aq)} + 2e^- \rightleftharpoons Sn_{(s)}$	-0,138
$Ni^{2+}_{(aq)} + 2e^- \rightleftharpoons Ni_{(s)}$	-0,257
$Cd^{2+}_{(aq)} + 2e^- \rightleftharpoons Cd_{(s)}$	-0,403
$Cr^{3+}_{(aq)} + e^- \rightleftharpoons Cr^{2+}_{(aq)}$	-0,407
$Fe^{2+}_{(aq)} + 2e^- \rightleftharpoons Fe_{(s)}$	-0,447
$Cr^{3+}_{(aq)} + 3e^- \rightleftharpoons Cr_{(s)}$	-0,744
$Zn^{2+}_{(aq)} + 2e^- \rightleftharpoons Zn_{(s)}$	-0,762
$2H_2O_{(l)} + 2e^- \rightleftharpoons H_{2(g)} + 2OH^-_{(aq)}$	-0,828
$Al^{3+}_{(aq)} + 3e^- \rightleftharpoons Al_{(s)}$	-1,662
$Mg^{2+}_{(aq)} + 2e^- \rightleftharpoons Mg_{(s)}$	-2,372
$La^{3+}_{(aq)} + 3e^- \rightleftharpoons La_{(s)}$	-2,379
$Na^+_{(aq)} + e^- \rightleftharpoons Na_{(s)}$	-2,71
$Ca^{2+}_{(aq)} + 2e^- \rightleftharpoons Ca_{(s)}$	-2,868
$Ba^{2+}_{(aq)} + 2e^- \rightleftharpoons Ba_{(s)}$	-2,912
$K^+_{(aq)} + e^- \rightleftharpoons K_{(s)}$	-2,931
$Li^+_{(aq)} + e^- \rightleftharpoons Li_{(s)}$	-3,040