

سلسلة جهود الاختزال القياسية

قوة العامل المختزل	Half-Reaction	E ⁰ (V)	قوة العامل المؤكسد
مختزل	$\text{Li}^+_{(\text{aq})} + \text{e}^- \rightarrow \text{Li}_{(\text{s})}$	-3.05	-
مختزل	$\text{K}^+_{(\text{aq})} + \text{e}^- \rightarrow \text{K}_{(\text{s})}$	-2.93	-
مختزل	$\text{Ba}^{2+}_{(\text{aq})} + 2 \text{e}^- \rightarrow \text{Ba}_{(\text{s})}$	-2.90	-
مختزل	$\text{Na}^+_{(\text{aq})} + \text{e}^- \rightarrow \text{Na}_{(\text{s})}$	-2.71	-
مختزل	$\text{Mg}^{2+}_{(\text{aq})} + 2 \text{e}^- \rightarrow \text{Mg}_{(\text{s})}$	-2.37	-
مختزل	$\text{Al}^{3+}_{(\text{aq})} + 3 \text{e}^- \rightarrow \text{Al}_{(\text{s})}$	-1.66	-
مختزل	$2 \text{H}_2\text{O} + 2 \text{e}^- \rightarrow \text{H}_{2(\text{g})} + 2 \text{OH}^-_{(\text{aq})}$	-0.83	-
مختزل	$\text{Zn}^{2+}_{(\text{aq})} + 2 \text{e}^- \rightarrow \text{Zn}_{(\text{s})}$	-0.76	-
مختزل	$\text{Cr}^{3+}_{(\text{aq})} + 3 \text{e}^- \rightarrow \text{Cr}_{(\text{s})}$	-0.74	-
مختزل	$\text{Fe}^{2+}_{(\text{aq})} + 2 \text{e}^- \rightarrow \text{Fe}_{(\text{s})}$	-0.44	مؤكسد
مختزل	$\text{Cd}^{2+}_{(\text{aq})} + 2 \text{e}^- \rightarrow \text{Cd}_{(\text{s})}$	-0.40	مؤكسد
مختزل	$\text{PbSO}_{4(\text{s})} + 2 \text{e}^- \rightarrow \text{Pb}_{(\text{s})} + \text{SO}_4^{2-}_{(\text{aq})}$	-0.31	مؤكسد
مختزل	$\text{Co}^{2+}_{(\text{aq})} + 2 \text{e}^- \rightarrow \text{Co}_{(\text{s})}$	-0.28	مؤكسد
مختزل	$\text{Ni}^{2+}_{(\text{aq})} + 2 \text{e}^- \rightarrow \text{Ni}_{(\text{s})}$	-0.25	مؤكسد
مختزل	$\text{Pb}^{2+}_{(\text{aq})} + 2 \text{e}^- \rightarrow \text{Pb}_{(\text{s})}$	-0.13	مؤكسد
مختزل	$2 \text{H}^+_{(\text{aq})} + 2 \text{e}^- \rightarrow \text{H}_{2(\text{g})}$	0.00	مؤكسد
مختزل	$\text{Cu}^{2+}_{(\text{aq})} + \text{e}^- \rightarrow \text{Cu}^+_{(\text{aq})}$	+0.13	مؤكسد
مختزل	$\text{AgCl}_{(\text{s})} + \text{e}^- \rightarrow \text{Ag}_{(\text{s})} + \text{Cl}^-_{(\text{aq})}$	+0.22	مؤكسد
مختزل	$\text{Cu}^{2+}_{(\text{aq})} + 2 \text{e}^- \rightarrow \text{Cu}_{(\text{s})}$	+0.34	مؤكسد
مختزل	$\text{O}_{2(\text{g})} + 2 \text{H}_2 + 4 \text{e}^- \rightarrow 4 \text{OH}^-_{(\text{aq})}$	+0.40	مؤكسد
مختزل	$\text{I}_{2(\text{s})} + 2 \text{e}^- \rightarrow 2 \text{I}^-_{(\text{aq})}$	+0.53	مؤكسد
مؤكسد	$\text{MnO}_4^-_{(\text{aq})} + 2 \text{H}_2\text{O} + 3 \text{e}^- \rightarrow \text{MnO}_{2(\text{s})} + 4 \text{OH}^-_{(\text{aq})}$	+0.59	مؤكسد
مؤكسد	$\text{O}_{2(\text{g})} + 2 \text{H}^+_{(\text{aq})} + 2 \text{e}^- \rightarrow \text{H}_2\text{O}_{2(\text{aq})}$	+0.68	مؤكسد
-	$\text{Fe}^{3+}_{(\text{aq})} + \text{e}^- \rightarrow \text{Fe}^{2+}_{(\text{aq})}$	+0.77	مؤكسد
-	$\text{Ag}^+_{(\text{aq})} + \text{e}^- \rightarrow \text{Ag}_{(\text{s})}$	+0.80	مؤكسد
-	$\text{Hg}_2^{2+}_{(\text{aq})} + 2 \text{e}^- \rightarrow 2 \text{Hg}_{(\text{l})}$	+0.85	مؤكسد
-	$\text{Br}_{2(\text{l})} + 2 \text{e}^- \rightarrow 2 \text{Br}^-_{(\text{aq})}$	+1.07	مؤكسد
-	$\text{O}_{2(\text{g})} + 4 \text{H}^+_{(\text{aq})} + 4 \text{e}^- \rightarrow 2 \text{H}_2\text{O}$	+1.23	مؤكسد
-	$\text{MnO}_{2(\text{s})} + 4 \text{H}^+_{(\text{aq})} + 2 \text{e}^- \rightarrow \text{Mn}^{2+}_{(\text{aq})} + 2 \text{H}_2\text{O}$	+1.23	مؤكسد
-	$\text{Cl}_{2(\text{g})} + 2 \text{e}^- \rightarrow 2 \text{Cl}^-_{(\text{aq})}$	+1.36	مؤكسد
-	$\text{MnO}_4^-_{(\text{aq})} + 8 \text{H}^+_{(\text{aq})} + 5 \text{e}^- \rightarrow \text{Mn}^{2+}_{(\text{aq})} + 4 \text{H}_2\text{O}$	+1.51	مؤكسد
-	$\text{PbO}_{2(\text{s})} + 4 \text{H}^+_{(\text{aq})} + \text{SO}_4^{2-}_{(\text{aq})} + 2 \text{e}^- \rightarrow \text{PbSO}_{4(\text{s})} + 2 \text{H}_2\text{O}$	+1.70	مؤكسد
-	$\text{F}_{2(\text{g})} + 2 \text{e}^- \rightarrow \text{F}^-_{(\text{aq})}$	+2.87	مؤكسد