

Redox Reaction Prediction Cheat Sheet

Important Oxidizers	Formed	Important Reducers	Formed
MnO_4^- (acid solution)	Mn^{2+}	Halide Ions	Halogens
MnO_4^- (basic solution)	MnO_2	Free Metals	Metal Ions
MnO_2 (acid solution)	Mn^{2+}	Metallous Ions	Metallic ions
$\text{Cr}_2\text{O}_7^{2-}$ (acid)	Cr^{3+}	Nitrite Ions	Nitrate Ions
CrO_4^{2-}	Cr^{3+}	Sulfite Ions	SO_4^{2-}
HNO_3 , conc	NO_2	Free Halogens (dil, basic, sol)	Hypohalite ions
HNO_3 , dilute	NO	Free Halogens (conc, basic sol)	Halate ions
H_2SO_4 , hot conc	SO_2	$\text{C}_2\text{O}_4^{2-}$	CO_2
Metallic Ions	Metallous Ions		
Free Halogens	Halide ions		
HClO_4	Cl^-		
Na_2O_2	OH^-		
H_2O_2	O_2		