

Symbols Used in Chemical Equations

Reactants and Products		Reaction Conditions	
Symbol	Meaning	Symbol	Meaning
(s) or (cr)	solid or crystal	\rightarrow	“produces” or “yields,” indicating result of reaction
(l)	liquid	\rightleftharpoons	reaction in which products can reform into reactants; final result is a mixture of products and reactants
(g)	gas	$\xrightarrow{\text{heat}}$ or $\xrightarrow{\text{heat}}$	reactants are heated
(aq)	in aqueous solution (dissolved in water)	$\xrightarrow{1.0 \times 10^8 \text{ kPa}}$	pressure at which reaction is carried out
\downarrow	solid precipitate product forms	$\xrightarrow{0^\circ\text{C}}$	temperature at which reaction is carried out
\uparrow	gaseous product forms	$\xrightarrow{\text{Pd}}$	chemical formula of a catalyst added to speed up a reaction
		\xrightarrow{e}	electrolysis