

# Solubility Rules Chart



		Group I Alkali Metals			Group II Alkaline Earth Metals			Transition Metals					Post-transition Metals		
	Ammonium $\text{NH}_4^+$	Lithium $\text{Li}^+$	Sodium $\text{Na}^+$	Potassium $\text{K}^+$	Magnesium $\text{Mg}^{2+}$	Calcium $\text{Ca}^{2+}$	Barium $\text{Ba}^{2+}$	Iron (II) $\text{Fe}^{2+}$	Iron (III) $\text{Fe}^{3+}$	Copper (II) $\text{Cu}^{2+}$	Silver $\text{Ag}^+$	Zinc $\text{Zn}^{2+}$	Lead (II) $\text{Pb}^{2+}$	Aluminum $\text{Al}^{3+}$	
Fluoride $\text{F}^-$	soluble	slightly soluble	soluble	soluble	insoluble	insoluble	slightly soluble	slightly soluble	slightly soluble	soluble	soluble	soluble	insoluble	slightly soluble	Fluoride $\text{F}^-$
Chloride $\text{Cl}^-$	soluble	soluble	soluble	soluble	soluble	soluble	soluble	soluble	soluble	soluble	insoluble	soluble	insoluble	soluble	Chloride $\text{Cl}^-$
Bromide $\text{Br}^-$	soluble	soluble	soluble	soluble	soluble	soluble	soluble	soluble	soluble	soluble	insoluble	soluble	slightly soluble	soluble	Bromide $\text{Br}^-$
Iodide $\text{I}^-$	soluble	soluble	soluble	soluble	soluble	soluble	soluble	soluble			insoluble		insoluble	soluble	Iodide $\text{I}^-$
Chlorate $\text{ClO}_3^-$	soluble	soluble	soluble	soluble	soluble	soluble	soluble		soluble		soluble		soluble	soluble	Chlorate $\text{ClO}_3^-$
Hydroxide $\text{OH}^-$	--	soluble	soluble	soluble	insoluble	slightly soluble	soluble	insoluble	insoluble	insoluble	slightly soluble	insoluble	insoluble	insoluble	Hydroxide $\text{OH}^-$
Sulfite $\text{SO}_3^{2-}$	soluble	soluble	soluble	soluble	soluble	insoluble	insoluble				insoluble	insoluble	insoluble		Sulfite $\text{SO}_3^{2-}$
Sulfate $\text{SO}_4^{2-}$	soluble	soluble	soluble	soluble	soluble	slightly soluble	insoluble	soluble	soluble	soluble	slightly soluble	soluble	insoluble	soluble	Sulfate $\text{SO}_4^{2-}$
Carbonate $\text{CO}_3^{2-}$	soluble	soluble	soluble	soluble	insoluble	insoluble	insoluble	insoluble		insoluble	insoluble	insoluble	insoluble		Carbonate $\text{CO}_3^{2-}$
Nitrite $\text{NO}_2^-$	soluble	soluble	soluble	soluble	soluble	soluble	soluble				insoluble		soluble		Nitrite $\text{NO}_2^-$
Nitrate $\text{NO}_3^-$	soluble	soluble	soluble	soluble	soluble	soluble	soluble	soluble	soluble	soluble	soluble	soluble	soluble	soluble	Nitrate $\text{NO}_3^-$
Phosphate $\text{PO}_4^{3-}$	soluble	insoluble	soluble	soluble	insoluble	insoluble	insoluble	insoluble	insoluble	insoluble	insoluble	insoluble	insoluble	insoluble	Phosphate $\text{PO}_4^{3-}$