

SOLUBLE COMPOUNDS

Almost all salts of Na^+ , K^+ , NH_4^+

Salts of nitrate, NO_3^-
chlorate, ClO_3^-
perchlorate, ClO_4^-
acetate, CH_3CO_2^-

EXCEPTIONS

Acetates of Al^{3+} , Ag^+

Almost all salts of Cl^- , Br^- , I^-

Halides of Ag^+ , Hg_2^{2+} , Pb^{2+}

Compounds containing F^-

Fluorides of Mg^{2+} , Ca^{2+} , Sr^{2+} , Ba^{2+} , Pb^{2+}

Salts of sulfate, SO_4^{2-}

Sulfates of Ca^{2+} , Sr^{2+} , Ba^{2+} , Pb^{2+}

INSOLUBLE COMPOUNDS

Most salts of carbonate, CO_3^{2-}
phosphate, PO_4^{3-}
oxalate, $\text{C}_2\text{O}_4^{2-}$
chromate, CrO_4^{2-}

EXCEPTIONS

Salts of NH_4^+ and the alkali metal cations

Most metal sulfides, S^{2-}

Most metal hydroxides and oxides

$\text{Ba}(\text{OH})_2$ is soluble

Activity Series

Li	
K	Will replace H ₂ from liquid water, steam, or acid
Ba	
Sr	
Ca	
Na	
Mg	
Al	Will replace H ₂ from steam or acid
Mn	
Zn	
Cr	
Fe	
Ni	Will replace H ₂ from acid
Sn	
Pb	
H ₂	
Sb	
Cu	Will not replace H ₂ from liquid water, steam, or acid
Hg	
Ag	
Pd	
Pt	
Au	