|  |  |
| --- | --- |
| **SOLUBLE COMPOUNDS** | **EXCEPTIONS** |
| **1. Salts of Na+, K+ and NH4+** | **none** |
| **2. Chlorides (Cl-), Bromides (Br-), and Iodides (I-)**  **[so these are Halide Salts]** | **Ag+, Hg2+2, Pb+2** |
| **3. Compounds containing Fluoride (F-)** | **Mg+2, Ca+2, Sr+2, Ba+2, Pb+2** |
| **4. Nitrates (NO3-), Chlorates (ClO3-), Perchlorates, (ClO4-), Acetates (C2H3O2-)** | **AgC2H3O2 and Hg2(C2H3O2) 2** |
| **5. Sulfates (SO4-2)** | **Sr+2, Ba+2, Pb+2, Ca+2 & Ag+1** |
| **INSOLUBLE (OR POORLY SOLUBLE)** | **EXCEPTIONS** |
| **6. All carbonates (CO3-2), Phosphates (PO4-3), Chromates (CrO4-2), Oxalates (C2O4-2)** | **Na+, K+, NH4+** |
| **7. All sulfides (S-2)** | **Group 1 and 2 cations and NH4+** |
| **8. All hydroxides (OH-) and oxides (O-2)** | **Group 1 and NH4+** |

**Metal Reactivity Series**

Li

Most Reactive

K

Ca

Na

Mg

Al

Mn

Zn

Cr

Fe

Cd

Co

Ni

Sn

Pb

H

Cu

Hg

Ag

Least Reactive

Pt

Au