

## Solubility Guidelines in Water– Please Memorize

Compounds containing:

1.  $\text{NO}_3^-$ ,  $\text{C}_2\text{H}_3\text{O}_2^-$ ,  $\text{HCO}_3^-$ ,  $\text{ClO}_3^-$ ,  $\text{ClO}_4^-$  are all soluble
2. Group 1 ions and  $\text{NH}_4^+$  are all soluble
3. Halides are soluble except when bonded to  $\text{Ag}^+$ ,  $\text{Hg}_2^{2+}$ ,  $\text{Pb}^{2+}$
4. Sulfates are soluble except when bonded to  $\text{Sr}^{2+}$ ,  $\text{Ba}^{2+}$ ,  $\text{Hg}_2^{2+}$ ,  $\text{Pb}^{2+}$
5. Everything else is insoluble.
6.  $\text{S}^{2-}$ , and  $\text{OH}^-$  are insoluble except when bonded to Group 1 ions,  $\text{NH}_4^+$ ,  $\text{Ca}^{2+}$ ,  $\text{Sr}^{2+}$ ,  $\text{Ba}^{2+}$