

1. nitrates are always soluble
2. Na, K, Li (column 1) is always soluble
3.  $\text{NH}_4^+$  is always soluble
4. column 17 is usually soluble except when the following are present:
  - Ag
  - Pb
  - Hg
5. Sulfate usually soluble, except when the following are present:
  - Pb
  - Hg
  - Ca
  - Sr
  - Ba
6.  $\text{OH}^-$  (Hydroxide) is usually insoluble with the exception of :
  - Ca
  - Sr
  - Ba

**7. Small charges work well with water**