SolubilityRules Made Easy

Having trouble memorizing your solubility rules? This is the hand out for you. These are two different ways that will help and make your life a little easier.

- The first is an acronym: "CASH N' Gia." All these things are soluble unless they are found with certain elements.
- The second is a list of bullet points if you do not like the acronym. The best way to remember these is pure memorization. There is no short cut!

All Soluble ————	> Except With
Chlorates	
A cetates	
Sulfates ————————————————————————————————————	Sr HgAgPb (CBS HAPpy)
Halogens → Hg	AgPb (HAPpy)
N' itrates	Simple Solubility Rules:
	-Nitrate (NO₃¯) salts are soluble.
G roup (IA)	-Alkali (group 1A) salts and NH₄ ⁺ are soluble.
i	-Cl ⁻ , Br ⁻ , and l ⁻ salts are soluble (NOT Ag ⁺ , Pb ²⁺ , Hg ₂ ²⁺)
а	-Sulfate salts are soluble (NOT BaSO ₄ , PbSO ₄ , HgSO ₄ , CaSO ₄)
	-OH ⁻ salts are only slightly soluble (NaOH, KOH are soluble, Ba(OH) ₂ ,Ca(OH) ₂ are marginally soluble)
	-S ²⁻ , CO ₃ ²⁻ , CrO ₄ ²⁻ , PO ₄ ³⁻ salts are insoluble.