

# Solubility Chart – *Modern Chemistry (Holt)*

**S** = soluble in water

**A** = soluble in acids, insoluble in water

**P** = partially soluble in water, soluble in dilute acids (if *reactant*, soluble in water, if *product*, insoluble in water)

**I** = insoluble in dilute acids and insoluble in water

**a** = slightly soluble in acids but insoluble in water

**d** = decomposes in water

ION	Acetate	Bromide	Carbonate	Chlorate	Chloride	Chromate	Hydroxide	Iodide	Nitrate	Oxide	Phosphate	Silicate	Sulfate	Sulfide
Aluminum	S	S	-	S	S	-	A	S	S	a	A	I	S	d
Ammonium	S	S	S	S	S	S	-	S	S	-	S	-	S	S
Barium	S	S	P	S	S	A	S	S	S	S	A	S	a	d
Calcium	S	S	P	S	S	S	P	S	S	P	P	P	P	P
Copper (II)	S	S	-	S	S	-	A	-	S	A	A	A	S	A
Hydrogen	S	S	-	S	S	-	-	S	S	-	S	I	S	S
Iron (II)	S	S	P	S	S	-	A	S	S	A	A	-	P	A
Iron (III)	S	S	-	S	S	A	A	S	S	A	P	-	P	d
Lead (II)	S	S	A	S	S	A	P	P	S	P	A	A	S	A
Magnesium	S	S	P	S	S	S	A	S	S	A	P	A	S	d
Manganese (II)	S	S	P	S	S	-	A	S	S	A	P	I	P	A
Mercury (I)	P	A	A	S	a	P	-	A	S	A	A	-	d	I
Mercury (II)	S	S	-	S	S	P	A	P	S	P	A	-	S	I
Potassium	S	S	S	S	S	S	S	S	S	S	S	S	P	S
Silver	P	a	A	S	a	P	-	I	S	P	A	-	S	A
Sodium	S	S	S	S	S	S	S	S	S	S	S	S	P	S
Strontium	S	S	P	S	S	P	S	S	S	S	A	A	S	S
Tin (II)	d	S	-	S	S	A	A	S	d	A	A	-	S	A
Tin (IV)	S	S	-	-	S	S	P	d	-	A	-	-	S	A
Zinc	S	S	P	S	S	P	A	S	S	P	A	A	S	A