

Appendix 8:

Solubility Chart

Initial note: All common compounds containing sodium or potassium or the ammonium, chlorate, or nitrate radical are soluble in water and are not listed in the following table.

S = soluble in water

P = partially soluble in water

I = insoluble in water and
in dilute acids

A = insoluble in water, soluble in
dilute acids

a = partially soluble in dilute acids;
insoluble in water

X = does not exist or decompose in
water

| | acetate | bromide | carbonate | chloride | chromate | hydroxide | iodide | oxide | phosphate | silicate | sulfate | sulfide |
|-----------|---------|---------|-----------|----------|----------|-----------|----------|-------|-----------|----------|---------|---------|
| aluminum | S | S | X | S | X | A | S | a | A | I | S | X |
| barium | S | S | P | S | A | S | S | S | A | S | a | X |
| calcium | S | S | P | S | S | S | S | P | P | P | P | P |
| cupric | S | S | X | S | X | A | X | A | A | A | S | A |
| ferrous | S | S | P | S | X | A | S | A | A | X | S | A |
| ferric | S | S | X | S | A | A | S | A | P | X | P | X |
| lead | S | S | A | S | A | P | A | P | A | A | P | A |
| magnesium | S | S | P | S | S | A | S | A | A | A | S | X |
| manganese | S | S | P | S | X | A | S | A | P | I | S | A |
| mercurous | P | A | A | a | P | A | A | A | A | X | P | I |
| *mercuric | S | S | X | S | P | X | P | P | A | X | S | I |
| silver | P | a | A | a | P | X | I | P | A | X | P | A |
| stannous | X | S | X | S | A | A | S | A | A | X | S | A |
| stannic | S | S | X | X | S | P | X | A | X | X | S | A |
| strontium | S | S | P | S | P | S | S | S | A | A | P | S |
| zinc | S | S | P | S | P | A | S | P | A | A | S | A |