

Table of Solubilities of Inorganic Compounds in Water

| Key | |
|-----|---------------------|
| i | nearly insoluble |
| ss | slightly soluble |
| d | decomposes in water |
| s | soluble |
| n | not isolated |

* Certain salts occur in two modifications.

| Nonmetal anion → | Acetate | Bromide | Carbonate | Chlorate | Chloride | Chromate | Hydroxide | Iodide | Nitrate | Oxide | Oxalate | Phosphate | Silicate | Sulfate | Sulfide | Sulfite |
|---------------------------|---------|---------|-----------|----------|----------|----------|-----------|--------|---------|-------|---------|-----------|----------|---------|---------|---------|
| Metal cation ↓ | | | | | | | | | | | | | | | | |
| Aluminum | s | s | n | s | s | n | i | s | s | i | i | i | i | s | d | n |
| Ammonium | s | s | s | s | s | s | s | s | s | n | ss | s | n | s | s | s |
| Antimony | n | d | n | n | s | n | n | d | n | ss | i | n | n | d | d | n |
| Arsenic | n | d | n | n | d | n | n | s | n | ss | n | n | n | n | i | n |
| Barium | s | s | i | s | s | i | s | s | s | s | i | i | n | i | d | i |
| Bismuth | i | d | n | n | d | n | i | i | d | i | d | i | i | d | i | n |
| Cadmium, Cd ²⁺ | s | s | i | s | s | i | i | s | s | i | i | i | i | s | i | ss |
| Calcium | s | s | i | s | s | s | i | s | s | i | i | i | i | i | ss | i |
| Chromium (III) | s | s(i)* | n | n | i | n | i | s | s | i | s | ss | n | s | d | i |
| Cobalt (II) | s | s | i | s | s | i | i | s | s | i | i | i | i | s | i | i |
| Copper (II) | s | s | i | s | s | i | i | i | s | i | i | i | n | s | i | n |
| Iron (II) | s | s | ss | s | s | n | i | s | s | i | i | i | i | s | i | i |
| Iron (III) | s | s | n | s | s | i | i | s | s | i | s | ss | n | s | d | n |
| Lead (II) | s | s | i | s | ss | i | i | i | s | i | i | i | i | i | i | i |
| Magnesium | s | s | ss | s | s | s | i | s | s | i | i | i | i | s | d | s |
| Mercury (I) | ss | i | i | s | i | ss | n | ss | d | i | i | n | n | i | i | n |
| Mercury (II) | s | s | n | s | s | ss | n | i | s | i | i | n | n | d | i | n |
| Nickel (II) | s | s | i | s | s | i | i | s | s | i | i | i | n | s | i | i |
| Potassium | s | s | s | s | s | s | s | s | s | s | s | s | s | s | s | s |
| Silver | ss | i | i | s | i | i | n | i | s | i | i | i | n | i | i | i |
| Sodium | s | s | s | s | s | s | s | s | s | s | s | s | s | s | s | s |
| Strontium | s | s | i | s | s | i | i | s | s | i | i | i | i | i | i | i |
| Zinc | s | s | i | s | s | i | i | s | s | i | i | i | i | s | i | i |