

Reference Table of Selected Ions and Acids for Naming
Salts and Deriving Their Formulas
 (Arranged alphabetically by formula)

| | | | |
|--|-------------------------------|--|--------------------------------|
| Ag⁺ | silver ion | H₃PO₄ | phosphoric acid |
| Al⁺³ | aluminum ion | H₂S | hydrogen sulfide |
| Ba⁺² | barium ion | H₂SO₄ | sulfuric acid |
| Br⁻ | bromide ion | I⁻ | iodide ion |
| Ca⁺² | calcium ion | K⁺ | potassium ion |
| Cl⁻ | chloride ion | Li⁺ | lithium ion |
| CN⁻ | cyanide ion | Mn⁺² | manganese (II) (manganous) ion |
| Co⁺² | cobalt (II) | Na⁺ | sodium ion |
| CO₃⁻² | carbonate ion | NH₄⁺ | ammonium ion |
| Cr⁺² | chromium (II) (chromous) | Ni⁺² | nickel (II) ion |
| Cr⁺³ | chromium (III) (chromous) ion | NO₃⁻ | nitrate ion |
| Cu⁺ | copper (I) (cuprous) ion | NO₂⁻ | nitrite ion |
| Cu⁺² | copper (II) (cupric) ion | O⁻² | oxide ion |
| C₂H₃O₂⁻ | acetate ion | OH⁻ | hydroxide ion |
| F⁻ | fluoride ion | Pb⁺² | lead ion |
| Fe⁺² | iron (II) (ferrous) ion | PO₄⁻³ | phosphate ion |
| Fe⁺³ | iron (III) (ferric) ion | S⁻² | sulfide ion |
| HBr | hydrogen bromide | Sn⁺² | tin (II) (stannous) ion |
| HCl | hydrogen chloride | Sn⁺⁴ | tin (IV) (stannic) ion |
| HCN | hydrogen cyanide | SO₄⁻² | sulfate ion |
| H₂CO₃ | carbonic acid | SO₃⁻² | sulfite ion |
| HC₂H₃O₂ | acetic acid | Zn⁺² | zinc ion |
| HF | Hydrogen fluoride | HCO₃⁻ | hydrogen carbonate ion |
| Hg⁺² | mercury (II) (mercuric) ion | H₂PO₄⁻ | dihydrogen phosphate ion |
| Hg₂⁺² | mercury (I) (mercurous) ion | HPO₄⁻² | monohydrogen phosphate ion |
| HI | hydrogen iodide | HSO₄⁻ | hydrogen sulfate ion |
| HNO₃ | nitric acid | HSO₃⁻ | hydrogen sulfite ion |

**NAMES AND FORMULAS FOR SOME COMMON ACIDS
AND ANIONS (BASES) DERIVED FROM THEM**

| | | | |
|---|---|---|---|
| HBr | Hydrobromic acid (Hydrogen bromide) | Br⁻ | bromide ion |
| HCl | Hydrochloric acid (Hydrogen chloride) | Cl⁻ | chloride ion |
| HCN | Hydrocyanic acid (Hydrogen cyanide) | CN⁻ | cyanide ion |
| H₂CO₃ | Carbonic acid | HCO₃⁻ CO₃⁻² | hydrogen carbonate ion carbonate ion |
| HC₂H₃O₂ | Acetic acid | C₂H₃O₂⁻ | acetate ion |
| HF | Hydrofluoric acid (Hydrogen fluoride) | F⁻ | fluoride ion |
| HI | Hydroiodic acid (Hydrogen iodide) | I⁻ | iodide ion |
| HNO₃ | Nitric acid | NO₃⁻ | nitrate ion |
| HNO₂ | Nitrous acid | NO₂⁻ | nitrite ion |
| H₃PO₄ | Phosphoric acid | H₂PO₄⁻ HPO₄⁻² PO₄⁻³ | dihydrogen phosphate ion monohydrogen phosphate ion phosphate ion |
| H₂S | Hydrosulfuric acid (Hydrogen sulfide) | HS⁻ S⁻² | hydrogen sulfide ion sulfide ion |
| H₂SO₄ | Sulfuric acid | HSO₄⁻ SO₄⁻² | hydrogen sulfate ion sulfate ion |
| H₂SO₃ | Sulfurous acid | HSO₃⁻ SO₃⁻² | hydrogen sulfite ion sulfite ion |