

Ion Formula Chart

Names and Charges of Some Common Ions

| 1+ | 2+ | 3+ |
|---|---|--|
| ammonium, NH_4^+ cesium, Cs^+ copper(I), Cu^+ gold(I), Au^+ hydrogen, H^+ lithium, Li^+ potassium, K^+ rubidium, Rb^+ silver, Ag^+ sodium, Na^+ | barium, Ba^{2+} beryllium, Be^{2+} cadmium, Cd^{2+} calcium, Ca^{2+} chromium(II), Cr^{2+} cobalt(II), Co^{2+} copper(II), Cu^{2+} iron(II), Fe^{2+} lead(II), Pb^{2+} magnesium, Mg^{2+} mercury(I), Hg_2^{2+} mercury(II), Hg^{2+} nickel, Ni^{2+} strontium, Sr^{2+} tin(II), Sn^{2+} zinc, Zn^{2+} | aluminum, Al^{3+} chromium(III), Cr^{3+} cobalt(III), Co^{3+} gallium, Ga^{3+} gold(III) Au^{3+} iron(III), Fe^{3+} |
| | | 4+ |
| | | lead(IV), Pb^{4+} tin(IV), Sn^{4+} |
| 1- | 2- | 3- |
| acetate, $\text{C}_2\text{H}_3\text{O}_2^-$ bromate, BrO_3^- bromide, Br^- chlorate, ClO_3^- chloride, Cl^- chlorite, ClO_2^- cyanide, CN^- dihydrogen phosphate, H_2PO_4^- fluoride, F^- hydrogen carbonate, or bicarbonate, HCO_3^- hydrogen sulfate, HSO_4^- hydroxide, OH^- iodate, IO_3^- iodide, I^- nitrate, NO_3^- nitrite, NO_2^- permanganate, MnO_4^- | carbonate, CO_3^{2-} chromate, CrO_4^{2-} dichromate, $\text{Cr}_2\text{O}_7^{2-}$ hydrogen phosphate, HPO_4^{2-} oxide, O^{2-} oxalate, $\text{C}_2\text{O}_4^{2-}$ peroxide, O_2^{2-} selenide, Se^{2-} sulfate, SO_4^{2-} sulfide, S^{2-} sulfite, SO_3^{2-} tartrate, $\text{C}_4\text{H}_4\text{O}_6^{2-}$ telluride, Te^{2-} thiosulfate, $\text{S}_2\text{O}_3^{2-}$ | borate, BO_3^{3-} nitride, N^{3-} phosphate, PO_4^{3-} phosphide, P^{3-} |