

Common Ionic Charges Reference Page

Ionic compound = Metal + Nonmetal

Element Cations

Element	Charge
Group 1 AND Silver	+1
Group 2 AND Zinc & Cadmium	+2
Group 13 (metals): Aluminum, Gallium, Indium	+3
All other Metals Roman Numerals give the charge	VARIES: Roman Numerals show the charge.
(I) +1 (VI) +6	
(II) +2 (VII) +7	
(III) +3 (VIII) +8	
(IV) +4 (IX) +9	
(V) +5 (X) +10	

Element Anions

Element	Charge
Group 17 Halogens	- 1
Group 16 nonmetals: Oxygen, Sulfur, Selenium	- 2
Group 15 nonmetals: Nitrogen, Phosphorous	- 3

Common Acids

Hydrochloric HCl	Carbonic H ₂ CO ₃
Nitric HNO ₃	Sulfuric H ₂ SO ₄
Acetic CH ₃ COOH	Phosphoric H ₃ PO ₄

Polyatomic Ions

+1	- 1	- 2	- 3
Ammonium NH₄⁺	Acetate C₂H₃O₂⁻¹	Carbonate CO₃⁻²	Arsenate AsO₄⁻³
	Bicarbonate HCO₃⁻¹	Chromate CrO₄⁻²	Borate BO₃⁻³
	Bisulfate HSO₄⁻¹	Dichromate Cr₂O₇⁻²	Phosphate PO₄⁻³
	Bromate BrO₃⁻¹	Peroxide O₂⁻²	
	Chlorate ClO₃⁻¹	Selenate SeO₄⁻²	
	Cyanide CN⁻¹	Silicate SiO₃⁻²	
	Hydroxide OH⁻¹	Sulfate SO₄⁻²	
	Iodate IO₃⁻¹	Thiosulfate S₂O₃⁻²	
	Nitrate NO₃⁻¹		
	Perchlorate ClO₄⁻¹		
	Permanganate MnO₄⁻¹		
	Thiocyanate SCN⁻¹		