

Ion Index

For General Chemistry Students

Cation Group	Cation Charge
Alkali Metals / Group 1A	+1
Alkaline Metals / Group 2A	+2
Anion Group	Anion Charge
Halogens / Group 7A	F ⁻ , Cl ⁻ , Br ⁻ , I ⁻
Group 6A	O ²⁻ , S ²⁻ , Se ²⁻ , Te ²⁻
Group 5A	N ³⁻
Group 3A	Al ³⁺ , Ga ³⁺ , In ³⁺

Transitional Metals	Common Ions
Chromium	Cr ²⁺ , Cr ³⁺
Iron	Fe ²⁺ , Fe ³⁺
Cobalt	Co ²⁺ , Co ³⁺
Copper	Cu ⁺ , Cu ²⁺
Tin	Sn ²⁺ , Sn ⁴⁺
Mercury	Hg ₂ ²⁺ , Hg ²⁺
Lead	Pb ²⁺ , Pb ⁴⁺
Aluminum	Al ³⁺
Zinc	Zn ²⁺
Scandium	Sc ³⁺
Silver	Ag ⁺

Polyatomic Ion Name	Formula
Acetate	C ₂ H ₃ O ₂ ⁻
Carbonate	CO ₃ ²⁻
Hydrogen carbonate (bicarbonate)	HCO ₃ ⁻
Hydroxide	OH ⁻
Nitrite	NO ₂ ⁻
Nitrate	NO ₃ ⁻
Chromate	CrO ₄ ²⁻
Dichromate	Cr ₂ O ₇ ²⁻
Phosphate	PO ₄ ³⁻
Hydrogen phosphate	HPO ₄ ²⁻
Dihydrogen phosphate	H ₂ PO ₄ ⁻
Ammonium	NH ₄ ⁺
Hypochlorite	ClO ⁻
Chlorite	ClO ₂ ⁻
Chlorate	ClO ₃ ⁻
Perchlorate	ClO ₄ ⁻
Permanganate	MnO ₄ ⁻
Sulfite	SO ₃ ²⁻
Hydrogen sulfite (bisulfite)	HSO ₃ ⁻
Sulfate	SO ₄ ²⁻
Hydrogen sulfate (bisulfate)	HSO ₄ ⁻
Cyanide	CN ⁻
Peroxide	O ₂ ²⁻