

Formulas and Names of Some Common Ions

1) Fixed Charge Metal Ions

Group Number	Cation	Name of Cation
1A	Li^+	Lithium ion
1A	Na^+	Sodium ion
1A	K^+	Potassium ion
2A	Mg^{2+}	Magnesium ion
2A	Ca^{2+}	Calcium ion
2A	Ba^{2+}	Barium ion
3A	Al^{3+}	Aluminum ion
1B	Ag^+	Silver ion
2B	Zn^{2+}	Zinc ion

2) Nonmetal Ions

Group Number	Anion	Name of Anion
5A	N^{3-}	nitride ion
6A	O^{2-}	oxide ion
6A	S^{2-}	sulfide ion
7A	F^-	fluoride ion
7A	Cl^-	chloride ion
7A	Br^-	bromide ion
7A	I^-	iodide ion

3) Variable Charge Metal Ions

Cation	Name of Cation
Cr^{2+}	Chromium (II) ion
Cr^{3+}	Chromium (III) ion
Mn^{2+}	Manganese (II) ion
Mn^{3+}	Manganese (III) ion
Fe^{2+}	Iron (II) ion
Fe^{3+}	Iron (III) ion
Co^{2+}	Cobalt (II) ion
Co^{3+}	Cobalt (III) ion
Ni^{2+}	Nickel (II) ion
Cu^+	Copper (I) ion
Cu^{2+}	Copper (II) ion
Pb^{2+}	Lead (II) ion
Pb^{4+}	Lead (IV) ion

4) Polyatomic Ions

Formula of Ion	Name of Ion
OH^-	Hydroxide ion
NH_4^+	Ammonium ion
NO_3^-	Nitrate ion
CO_3^{2-}	Carbonate ion
HCO_3^-	Hydrogen carbonate (or bicarbonate) ion
SO_4^{2-}	Sulfate ion
PO_4^{3-}	Phosphate ion