

IONS

Cations

Ag ⁺	Silver ion		
Al ³⁺	Aluminum		
NH ₄ ⁺	Ammonium ion		
Co ²⁺	Cobaltous ion	Co ³⁺	Cobaltic ion
Cr ²⁺	Chromous ion	Cr ³⁺	Chromic ion
Cu ⁺	Cuprous ion	Cu ²⁺	Cupric ion
Fe ²⁺	Ferrous ion	Fe ³⁺	Ferric ion
H ⁺	Hydrogen ion	H ₃ O ⁺	Hydronium ion
Hg ₂ ²⁺	Mercurous ion	Hg ²⁺	Mercuric ion
Pb ²⁺	Plumbous ion	Pb ⁴⁺	Plumbic ion
Sn ²⁺	Stannous ion	Sn ⁴⁺	Stannic ion
Zn ²⁺	Zinc ion		

Acids

HC ₂ H ₃ O _{2(aq)}	Acetic acid
H ₂ CO _{3(aq)}	Carbonic acid
HCL _(aq)	Hydrochloric acid
HNO _{3(aq)}	Nitric acid
H ₃ PO _{4(aq)}	Phosphoric acid
H ₂ SO _{4(aq)}	Sulfuric acid

SI Prefixes

Factor	Prefix	Symbol
10 ⁹	giga	G
10 ⁶	mega	M
10 ³	kilo	k
10 ²	hecto	h
10 ¹	deka	da
10 ⁻¹	deci	d
10 ⁻²	centi	c
10 ⁻³	milli	m
10 ⁻⁶	micro	μ
10 ⁻⁹	nano	n
10 ⁻¹²	pico	p
10 ⁻¹⁵	femto	f

Anions

CH ₃ COO ⁻	or C ₂ H ₃ O ₂	Acetate ion	
NH ₂ ⁻		Amide ion	
N ₃ ⁻		Azide ion	
BO ₃ ³⁻		Borate ion	
Br ⁻		Bromide ion	
CO ₃ ²⁻		Carbonate ion	C ₂ ²⁻ or C ⁴⁻ Carbide ion
HCO ₃ ⁻		Hydrogen carbonate or Bicarbonate ion	
ClO ₄ ⁻		Perchlorate ion	
ClO ₃ ⁻		Chlorate ion	Cl ⁻ Chloride ion
ClO ₂ ⁻		Chlorite ion	ClO ⁻ Hypochlorite ion
CrO ₄ ²⁻		Chromate ion	Cr ₂ O ₇ ²⁻ Dichromate
OCN ⁻		Cyanate ion	CN ⁻ Cyanide ion
SCN ⁻		Thiocyanate ion	
F ⁻		Fluoride ion	
H ⁻		Hydride ion	
OH ⁻		Hydroxide ion	
I ⁻		Iodide ion	I ₃ ⁻ Triiodide ion
NO ₃ ⁻		Nitrate ion	N ³⁻ Nitride ion
NO ₂ ⁻		Nitrite ion	
-OOC ⁻ COO ⁻	or C ₂ O ₄ ²⁻	Oxalate ion	
O ²⁻		Oxide ion	O ₂ ²⁻ Peroxide ion
MnO ₄ ⁻		Permanganate ion	
PO ₄ ³⁻		Phosphate ion	
HPO ₄ ²⁻		Hydrogen phosphate ion	
H ₂ PO ₄ ⁻		Dihydrogen phosphate ion	
SiO ₄ ⁴⁻		Silicate ion	
SO ₅ ²⁻		Persulfate ion	
SO ₄ ²⁻		Sulfate ion	S ²⁻ Sulfide ion
SO ₃ ²⁻		Sulfite ion	SO ₂ ²⁻ Hyposulfite
HSO ₄ ⁻		Hydrogen sulfate or bisulfate ion	
HSO ₃ ⁻		Hydrogen sulfite or bisulfite ion	
S ₂ O ₃ ²⁻		Thiosulfate ion	