

Symbols and Charges for Monoatomic Ions

Symbol	Name	Symbol	Name
H ⁺	hydrogen ion	H ⁻	hydride
Li ⁺	lithium ion	F ⁻	fluoride
Na ⁺	sodium ion	Cl ⁻	chloride
K ⁺	potassium ion	Br ⁻	bromide
Rb ⁺	rubidium ion	I ⁻	iodide
Cs ⁺	cesium ion	O ²⁻	oxide
Be ²⁺	beryllium ion	S ²⁻	sulfide
Mg ²⁺	magnesium ion	Se ²⁻	selenide
Ca ²⁺	calcium ion	Te ²⁻	telluride
Sr ²⁺	strontium ion		
Ba ²⁺	barium ion	Ag ⁺	silver ion
Ra ²⁺	radium ion	Ni ²⁺	nickel ion
Zn ²⁺	zinc ion	Al ³⁺	aluminum ion

Note that the letters in an ion's name before the -ide ending is the stem. For example, the stem for bromide is brom-.

N ³⁻	nitride
P ³⁻	phosphide
As ³⁻	arsenide

Symbol	Systematic name (Stock system)	Common name	Symbol	Systematic name (Stock system)	Common name
Cu ⁺	copper(I)	cuprous	Hg ₂ ²⁺	mercury(I)	mercurous
Cu ²⁺	copper(II)	cupric	Hg ²⁺	mercury(II)	mercuric
Fe ²⁺	iron(II)	ferrous	Pb ²⁺	lead(II)	plumbous
Fe ³⁺	iron(III)	ferric	Pb ⁴⁺	lead(IV)	plumbic
Sn ²⁺	tin(II)	stannous	Co ²⁺	cobalt(II)	cobaltous
Sn ⁴⁺	tin(IV)	stannic	Co ³⁺	cobalt(III)	cobaltic
Cr ²⁺	chromium(II)	chromous	Au ⁺	gold(I)	aurous
Cr ³⁺	chromium(III)	chromic	Au ³⁺	gold(III)	auric
Mn ²⁺	manganese(II)	manganous			
Mn ³⁺	manganese(III)	manganic			

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Formula	Name	Formula	Name
NO ₃ ⁻	nitrate	ClO ₄ ⁻	perchlorate
NO ₂ ⁻	nitrite	ClO ₃ ⁻	chlorate
CrO ₄ ²⁻	chromate	ClO ₂ ⁻	chlorite
Cr ₂ O ₇ ²⁻	dichromate	ClO ⁻	hypochlorite
CN ⁻	cyanide	IO ₄ ⁻	periodate
MnO ₄ ⁻	permanganate	IO ₃ ⁻	iodate
OH ⁻	hydroxide	IO ⁻	hypoiodite
O ₂ ²⁻	peroxide	BrO ₃ ⁻	bromate
NH ₂ ⁻	amide	BrO ⁻	hypobromite
CO ₃ ²⁻	carbonate	HCO ₃ ⁻	hydrogen carbonate (bicarbonate)
SO ₄ ²⁻	sulfate	HSO ₄ ⁻	hydrogen sulfate (bisulfate)
SO ₃ ²⁻	sulfite	HSO ₃ ⁻	hydrogen sulfite (bisulfite)
C ₂ O ₄ ²⁻	oxalate	HC ₂ O ₄ ⁻	hydrogen oxalate (binoxalate)
PO ₄ ³⁻	phosphate	HPO ₄ ²⁻	hydrogen phosphate
PO ₃ ³⁻	phosphite	H ₂ PO ₄ ⁻	dihydrogen phosphate
NH ₄ ⁺	ammonium	C ₂ H ₃ O ₂ ⁻	acetate
		CH ₃ COO ⁻	acetate