

Inorganic Chemical Nomenclature

Binary Compound Names for Non-Metal Ions

H ⁻	hydride	N ³⁻	nitride	O ²⁻	oxide	F ⁻	fluoride
H ⁺	hydrogen	P ³⁻	phosphide	S ²⁻	sulfide	Cl ⁻	chloride
		As ³⁻	arsenide	Se ²⁻	selenide	Br ⁻	bromide
				Te ²⁻	telluride	I ⁻	iodide

Polyatomic Ion Names

NH ₃	ammonia	ClO ₄ ⁻	perchlorate	PO ₄ ³⁻	phosphate
NH ₄ ⁺	ammonium	ClO ₃ ⁻	chlorate	HPO ₄ ²⁻	monohydrogen phosphate
H ₃ O ⁺	hydronium	ClO ₂ ⁻	chlorite		
CH ₃ COO ⁻	acetate	ClO ⁻	hypochlorite	H ₂ PO ₄ ⁻	dihydrogen phosphate
(C ₂ H ₃ O ₂) ⁻		CrO ₄ ²⁻	chromate		
AsO ₄ ³⁻	arsenate	Cr ₂ O ₇ ²⁻	dichromate	PO ₃ ³⁻	phosphite
BO ₃ ³⁻	borate	CN ⁻	cyanide	SeO ₄ ²⁻	selenate
B ₄ O ₇ ²⁻	tetraborate	OH ⁻	hydroxide	SiO ₃ ²⁻	silicate
BrO ₃ ⁻	bromate	IO ₄ ⁻	periodate	SiF ₆ ²⁻	hexafluorosilicate
BrO ⁻	hypobromite	IO ₃ ⁻	iodate	SO ₄ ²⁻	sulfate
CO ₃ ²⁻	carbonate	IO ⁻	hypoiodite	HSO ₄ ⁻	hydrogen sulfate (bisulfate)
HCO ₃ ⁻	hydrogen carbonate (bicarbonate)	MnO ₄ ⁻	permanganate		
		NO ₃ ⁻	nitrate	SO ₃ ²⁻	sulfite
		NO ₂ ⁻	nitrite	HSO ₃ ⁻	hydrogen sulfite (bisulfite)
		C ₂ O ₄ ²⁻	oxalate		
		O ₂ ²⁻	peroxide	C ₄ H ₄ O ₆ ²⁻	tartrate
				S ₂ O ₃ ²⁻	thiosulfate

Common Acid Names

HC ₂ H ₃ O ₂	acetic acid	HNO ₃	nitric acid
CH ₃ COOH	acetic acid	H ₃ PO ₄	phosphoric acid
H ₂ CO ₃	carbonic acid	H ₂ SO ₄	sulfuric acid
HCl	hydrochloric acid		