

Ion Formulas

Polyatomic ions are **bolded**.

CATIONS (positive)						ANIONS (negative)					
+1						-1					
H ⁺	hydrogen	Cu ⁺	copper (I)	H₃O⁺	hydronium	C ₂ H ₃ O ₂ ⁻	acetate (or CH ₃ COO ⁻)	CNO ⁻	fulminate		
Li ⁺	lithium	Au ⁺	gold (I)	NH ₄ ⁺	ammonium	NH ₂ ⁻	amide	OH ⁻	hydroxide		
Na ⁺	sodium			Hg ₂ ²⁺	mercury (I)	C ₆ H ₅ COO ⁻	benzoate	IO ⁻	hypoiodate		
K ⁺	potassium				mercurous	BrO ⁻	hypobromite	IO ₃ ⁻	iodate		
Rb ⁺	rubidium					BrO ₂ ⁻	bromite	IO ₄ ⁻	periodate		
Cs ⁺	cesium					F ⁻	fluoride	MnO ₄ ⁻	permanganate		
Ag ⁺	silver					Cl ⁻	chloride	NO ₂ ⁻	nitrite		
						Br ⁻	bromide	NO ₃ ⁻	nitrate		
						I ⁻	iodide	HC ₂ O ₄ ⁻	binoxalate		
								SCN ⁻	thiocyanate		
								H ₂ PO ₄ ⁻	dihydrogen phosphate		
								HS ⁻	bisulfide (or hydrogen sulfide)		
								HSO ₃ ⁻	bisulfite (or hydrogen sulfite)		
								HSO ₄ ⁻	bisulfate (or hydrogen sulfate)		
+2						-2					
Be ²⁺	beryllium	Cr ²⁺	chromium (II)	Pb ²⁺	lead (II)	B ₄ O ₇ ²⁻	tetraborate	C ₂ O ₄ ²⁻	oxalate		
Mg ²⁺	magnesium			plumbous		CO ₃ ²⁻	carbonate	HPO ₄ ²⁻	hydrogen phosphate		
Ca ²⁺	calcium	Co ²⁺	cobalt (II)	Mn ²⁺	manganese (II)	C ₄ H ₄ O ₆ ²⁻	tartrate	S ₂ O ₃ ²⁻	thiosulfate		
Sr ²⁺	strontium			cobaltous		CrO ₄ ²⁻	chromate	SeO ₄ ²⁻	seenate		
Ba ²⁺	barium	Cu ²⁺	copper (II)	Hg ²⁺	mercury (II)	Se ₂ O ₇ ²⁻	dichromate	SiO ₄ ²⁻	silicate		
Ra ²⁺	radium			cupric		Telluride	SO ₂ ²⁻	SiF ₆ ²⁻	hexafluorosilicate		
Cd ²⁺	cadmium	Fe ²⁺	iron (II)	Pt ²⁺	platinum (II)	SO ₃ ²⁻	hyposulfite				
Ni ²⁺	nickel*			Sn ²⁺	tin (II)	SO ₄ ²⁻	sulfite				
Zn ²⁺	zinc		ferrous		stannous		sulfate				
+3						-3					
Al ³⁺	aluminum	Cr ³⁺	chromium (III)	Fe ³⁺	iron (III)	N ³⁻	nitride	AsO ₄ ³⁻	aronate		
Sb ³⁺	antimony		chromic	ferric		P ³⁻	phosphide	BO ₃ ³⁻	borate		
Bi ³⁺	bismuth	Co ³⁺	cobalt (III)	Mn ³⁺	manganese (III)	As ³⁻	arsenide	C ₂ H ₅ O ₇ ³⁻	citrate		
Ga ³⁺	gallium		cobaltic	manganic							
		Au ³⁺	gold (III)	Ti ³⁺	titanium (III)						
			auric	U ³⁺	uranium (III)						
+4											
Pb ⁴⁺	lead (IV)	Sn ⁴⁺	tin (IV)	W ⁴⁺	tungsten (IV)	N ³⁻		PO ₃ ³⁻	phosphite		
	plumbic		stannic	U ⁴⁺	uranium (IV)	P ³⁻		PO ₄ ³⁻	phosphate		
Pt ⁴⁺	platinum (IV)	Ti ⁴⁺	titanium (IV)	V ⁴⁺	vanadium (IV)	As ³⁻					

*The most common oxidation state of nickel is +2, but compounds of Ni⁺, Ni³⁺, and Ni⁴⁺ are known. (ISBN 0-7506-3365-4)