



Naming Compounds Reference Guide

Date:

Name:

Common Elements with Multiple Ionic Charges

Element	Chemical Symbol	Ionic Charges
Iron	Fe	3+, 2+
Nickel	Ni	2+, 3+
Copper	Cu	2+, 1+
Tin	Sn	4+, 2+
Platinum	Pt	4+, 2+
Gold	Au	3+, 1+
Mercury	Hg	2+, 1+
Lead	Pb	2+, 4+

Prefixes for Molecular Compounds

Prefix	# of atoms	Prefix	# of atoms
mono-	1	hexa-	6
di-	2	hepta-	7
tri-	3	octo-	8
tetra-	4	nona-	9
penta-	5	deca-	10

Common Polyatomic Ions

Name of Polyatomic Ion	Formula	Charge
nitrate	NO_3^-	1-
nitrite	NO_2^-	1-
hydroxide	OH^-	1-
Bicarbonate or hydrogen carbonate	HCO_3^-	1-
chlorate	ClO_3^-	1-
carbonate	CO_3^{2-}	2-
sulphate	SO_4^{2-}	2-
phosphate	PO_4^{3-}	3-
ammonium	NH_4^+	1+
permanganate	MnO_4^-	1-
chromate	CrO_4^{2-}	2-