

CHEMISTRY HANDGUIDE *V. 1.0.0*

Number Prefixes:

mono - one

di - two

tri - three

tetra - four

penta - five

hexa - six

hepta - seven

oct - eight

nona - nine

deca - ten

Naming Ionic Compounds:

Write the full name of the cation and use the root of the anion with "-ide."
Ex. NaCl, Sodium chloride

The charges must balance to zero.

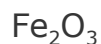
They can be formed between nonmetals and metals.

Metals with Multiple Charges:

The oxidation number of the metal is indicated by a Roman numeral in parentheses.

Ex. Fe^{2+} , Iron (II) and Cu^{2+} , Copper (II)

More complex example:



O_3^{2-} - the total charge on the oxygen is 3 times -2 which is -6.

The charges have to balance to zero.

$\text{Fe}_2^{?+} \rightarrow \text{Fe}_2^{3+}$ - Iron (III) oxide

The total charge on the iron is +6.