

Naming Ionic Compounds with Variable Charge Metals

Guide to Naming Ionic Compounds with Variable Charge Metals

1

Determine the charge of the cation from the anion.

2

Name the cation by its element name, and use a Roman numeral in parentheses for the charge.

3

Name the anion by using the first syllable of its element name followed by *ide*.

4

Write the name for the cation first and the name for the anion second.

Naming FeCl_2

Step 2 Name the cation by its element name and use a Roman numeral in parentheses for the charge.



Step 3 Name the anion by using the first syllable of its element name followed by *ide*.



Step 4 Write the name for the cation first and the name for the anion second.



Writing Formulas for Ionic Compounds

Guide to Writing Formulas from the Name of an Ionic Compound

1

Identify the cation and anion.

2

Balance the charges.

3

Write the formula, cation first, using subscripts from the charge balance.

Learning Check

Write the correct name for CuO .

Write the correct formula for copper(I) nitride.