What type of compound is it?

Ionic Compound

Composed of cations (metals or polyatomic ions) and anions (nonmetals and polyatomic ions

Covalent Compound

Nonionic - not composed ofcations and anions. Typically only nonmetals are present

Polyatomic ions

The compound contains a polyatomic ion

Acid

Produces H⁺ in water. Typically the Hydrogen cation is written first in the formula

Type I

1. Name the cation first using its full name

2. Name the anion second keeping only the root and adding a -ide ending

Type II

- 1. Name the cation first using its full name
- 2. write the charge of the cation in parentheses and write the charge in Roamn numerials example: Iron (III)
- 3. Name the anion second keeping only the root and adding a -ide ending

- Type III
- 1. Name the first element using its full name
- 2. Name the second element keeping only the root and adding a -ide ending
- 3. Add prefixes to the name to represent the number of each element you have

- 1. Keep the full name of the polyatomic ion.
- 2. Follow the same rules as before with the positively charged cation listed first then the negatively charged anion listed second

Anion doesn't contain Oxygen

> Hydro + haloaen name + ic Acid

Example: HCl

Halogen -Chlorine

Name: Hydrochloric Acid

Anion does contain Oxygen

These are polyatomic ions. The acid name is formed from the root name of the central element of the of the

anion

Polyatomic ion ends in -ate

When the anion name ends in -ate, the suffix -ic is used.

- 1. Idenify the central atom
- 2. Add the -ic ending to the central atom
- 3. Add acid to tne end

Example: H₂SO₄ Central Atom = Sulfur

Polyatomic ion ends in -ite

When the anion name ends in -ate, the suffix -ic is used.

- 1. Idenify the central atom
- 2. Add the ous ending to the central atom
- 3. Add acid to the end

Example: H_2SO_3 Central Atom = Sulfur Sulfurous Acid

Sulfuric Acid