

Naming chemicals

Each question below gives you the formula for a chemical. For each...

- first determine which type of chemical it is (see below);
- then name the chemical according to the rules for that type.

⇒ Check yourself for each step; answer keys are posted at the web site: Intro Chem, “Naming chemicals”. It is important that you check yourself at the “type” step before going on to name the compounds. The web site answer pages include explanations. The first page posted also includes an expanded introduction and some other notes. The web page has an interactive feature, making it easier for you to check each question as you go.

Types of compounds (for deciding how to name them). This is brief; see the book for details.

1. Ionic, with “predictable” cation. (Name: just name the cation and the anion.)
2. Ionic, with “unpredictable” cation. (Name: As above, but include the cation charge = oxidation number, as a roman numeral.) (Don’t worry about the “old system”.)
3. Covalent (two non-metals). (Name: Use Greek prefixes to show how many of each atom.)

Questions

<u>formula</u>	<u>type</u>	<u>name</u>
1. NaF		
2. CuF		
3. CuF ₂		
4. CuS		
5. Cu(NO ₃) ₂		
6. ClO ₂		
7. Cl ₂ O		
8. N ₂ S ₅		
9. CaSO ₄		
10. FeSO ₄		
11. Fe ₂ (SO ₄) ₃		
12. (NH ₄) ₂ SO ₄		