

Covalent Naming

Covalent compounds - non-metals
bonded with more non-metals

- Share electrons

- Charges don't matter, nothing to balance.

Rules:

1. Name each element in the compound
2. The last element should end with "ide"
3. Use Greek prefixes to identify number of elements
 - ↳ Prefix = subscript
 - ↳ "mono" is not required for first element

1 - mono
2 - di
3 - tri

4 - tetra
5 - penta
6 - hexa

7 - hepta
8 - octa
9 - nona

10 - deca
11 - hendeca
12 - dodeca

Example

CO

Carbon monoxide

P_4O_{10} tetraphosphorus decoxide

dinitrogen tetrahydride NH_4
↳ hydrogen

SF_6 Sulfur hexafluoride

C_3H_8 → tricarbon octahydride

iodine tribromide IBr_3