

Naming Covalent Compounds

- Covalent compounds contain two nonmetals
- We use prefixes to tell how many of each atom it contains

Prefixes

- 1 mono-
- 2 di-
- 3 tri-
- 4 tetra-
- 5 penta-
- 6 hexa-
- 7 hepta-
- 8 octa-

Prefixes

- 9 nona-
- 10 deca-
- To write the name write two words

Prefix name Prefix name -ide

- One exception is we don't write mono- if there is only one of the first element.

Name These



Name These

- N_2O = dinitrogen monoxide
- NO_2 = nitrogen dioxide
- Cl_2O_7 = dichlorine heptoxide
- BaCl_2 = barium chloride (ionic)

Write formulas for these

- diphosphorus pentoxide
- sulfur hexafluoride
- aluminum chloride

Write formulas for these

- diphosphorus pentoxide = P_2O_5
- sulfur hexafluoride = SF_6
- aluminum chloride = $AlCl_3$ (ionic)

Special Names

☉ H_2O Water

☉ NH_3 Ammonia

☉ CH_4 Methane

☉ C_2H_6 Ethane