

Naming Molecular Compounds Worksheet

Molecular compounds are made of nonmetals atoms bonded together by **sharing** electrons. There are NO IONS and NO CHARGE involved in covalent bonding.

When we name any molecular compound, we need to find the name of each element in the compound and to know the prefixes for the total number of atoms of each element in the compound.

PART 1: Here are the prefixes used in naming molecular compounds. Each prefix indicates a number used in a chemical name. **Write** each prefix next to the **number** that that it represents.

hepta di tri non deca tetra penta octa hexa mono

PART 2: Name each molecular compound below.

a) P_3F_4 e) NO
b) BrP_7 f) $SiCl_6$
c) SO_3 g) IF_3
d) N_2O_5

PART 3: Write the formula of each molecular compound.

Tribromine nonoxide	Dihydrogen monoxide
Nitrogen dioxide	Octanitrogen tetraoxide
Sulfur hexafluoride	Phosphorus tribromide
Pentoxygen dichloride	Carbon tetraiodide
Diboron heptoxide	Dinitrogen hexoxide
Iodine monobromide	Carbon monoxide