

Lesson 63: Molecular Compound Assessment Chemistry with Lab

Molecular compounds are formed between:

- a. metals b. nonmetals c. metals and nonmetals

In molecular compounds, the atoms bond together to form:

- a. molecules b. ions

In molecular compounds, what are used to show the number of atoms of each element per molecule?

Match the prefix with the meaning:

- | | |
|----------|-------------|
| a. di | _____ one |
| b. octa | _____ two |
| c. deca | _____ three |
| d. tri | _____ four |
| e. nona | _____ five |
| f. hexa | _____ six |
| g. mono | _____ seven |
| h. hepta | _____ eight |
| i. penta | _____ nine |
| j. tetra | _____ ten |

Lesson 63: Assessment (cont.)

Chemistry with Lab

Fill in the blanks using the word bank.

alkane	-ane	alkenes	bond	carbon	carbon atoms	double
-ene	hydrocarbons	prefix	saturated	triple	unsaturated	

Organic compounds are now defined as compounds that contain the element _____. The nature of the _____ between each pair of carbon atoms in an organic compound will determine whether the compound is saturated or unsaturated. The bonds between the carbon atoms in a(n) _____ compound are single bonds, but in a(n) _____ compound, the bonds between neighboring carbon atoms are double or _____ bonds. The organic compounds containing only hydrogen and carbon are called _____. C_nH_{2n+2} is the general form for the _____ series of hydrocarbons. The names of this series are composed of a _____, which denotes the number of carbon atoms present, and the suffix _____. This series of hydrocarbons has only single bonds, and so, is said to be _____. C_nH_{2n+2} is the general form for the class of hydrocarbons referred to as the _____. Each member of this series has a pair of carbon atoms connected by a _____ bond, and so, is said to be unsaturated. Again, prefixes are used to denote the number of _____ present in the molecule, and all members of this series end in the suffix _____.