

Concept Review

Section: Drawing and Naming Molecules

Complete each statement below by choosing a term from the following list. Terms may be used more than once.

triple double single resonance Lewis valence unshared

1. An electron in the outermost energy level of an atom that can participate in bonding is called a(n) _____ electron.
2. A structure in which atomic symbols represent nuclei and inner-shell electrons and in which dots are used to represent valence electrons is called a(n) _____ structure.
3. A possible Lewis structure of a molecule for which more than one Lewis structure can be written is called a(n) _____ structure.
4. A covalent bond in which two atoms share two pairs of electrons is called a(n) _____ bond.
5. A covalent bond in which two atoms share three pairs of electrons is called a(n) _____ bond.
6. A bond in which two atoms share one pair of electrons is a _____ bond.
7. A nonbonding pair of electrons in the valence shell of an atom is called a(n) _____ pair.

Answer the following items in the space provided.

8. Methanol, CH_3OH , can be used as a solvent, as an antifreeze, and in the production of formaldehyde. Draw the Lewis structure for methanol.
9. Propane, C_3H_8 , is a common fuel for gas barbecue grills. Draw the Lewis structure for propane.

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K Morrison



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