Compounds *Practice Questions*



Directions: Choose the letter that corresponds to the correct answer.

- 1. What is the correct chemical name for water?
 - a. oxygen dihydride
 - b. dihydrogen monoxide
 - c. monoxygen dihydride
 - d. all of the above
- 2. Which of the following is the correct chemical formula for ammonium arsenate?
 - a. $(NH_4)_3AsO_4$
 - b. $(NH_3)_4AsO_3$
 - c. $NH_4(AsO_4)_3$
 - d. $(AsO_4)_3(NH_4)_4$
- 3. When an electron-rich atom donates a lone pair to form a bond with an electron-poor atom, the bond is called a/an _____ bond.
 - a. ionic
 - b. dative
 - c. covalent
 - d. metallic
- 4. What is the oxidation number of sulfur in the ionic compound sodium thiosulfate?
 - a. -4
 - b. -2
 - c. +2
 - d. +4
- 5. Which of the following statements is FALSE?
 - a. The oxidation number of oxygen is always -2.
 - b. The oxidation number of aluminum is always +3.
 - c. The oxidation number of fluorine is always -1.
 - d. Pure copper has an oxidation number of zero.
 - e. All of the above
 - f. None of the above



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Compounds

Practice Questions

- 6. How many grams of carbon are there in 50 g of CO_2 (MM C = 12; MM O = 16)?
 - a. 21.4 g
 - b. 18.2 g
 - c. 13.7 g
 - d. 36.4 g

For numbers 7-10, refer to the following set of compounds:



7. Which of the three compound/s is/are nonpolar?

- a. A
- b. B
- c. C
- d. All of the above
- e. None of the above
- 8. Which of the three compounds exhibit London dispersion forces?
 - a. A
 - b. B
 - c. C.
 - d. All of the above
 - e. None of the above



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Compounds





- 9. Between compounds A and C, which has a higher boiling point?
 - a. Compound A because it is a tetrahedral molecule.
 - b. Compound C because it has stronger intermolecular forces of attraction.
 - c. Since compounds A and C have approximately the same molar mass, they will boil at the same temperature.
 - d. More information is needed.
- 10. Which of the following statements is/are TRUE?
 - a. Compounds A, B, and C have similar electron pair geometry.
 - b. The electron pair geometry of compounds B and C is trigonal pyramidal.
 - c. The electron pair geometry and molecular geometry of compound C are both trigonal pyramidal.
 - d. All of the above
 - e. None of the above



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