

Chapter 10 Study Guide: The Mole**Matching**

Match each item with the correct statement below.

- a. molar volume
- b. molar mass
- c. atomic mass

- _____ 1. the number of grams of an element that is numerically equal to the atomic mass of the element in amu
- _____ 2. the mass of a mole of any element or compound
- _____ 3. the volume occupied by a mole of any gas at STP

Match each item with the correct statement below.

- | | |
|----------------------------|--------------------------------------|
| a. representative particle | d. percent composition |
| b. mole | e. standard temperature and pressure |
| c. Avogadro's number | f. empirical formula |

- _____ 4. the number of representative particles of a substance present in 1 mole of that substance
- _____ 5. an atom, an ion, or a molecule, depending upon the way a substance commonly exists
- _____ 6. the SI unit used to measure amount of substance
- _____ 7. 0°C and 1 atm
- _____ 8. the percent by mass of each element in a compound
- _____ 9. the smallest whole number ratio of the atoms in a compound

Multiple Choice

Identify the choice that best completes the statement or answers the question.

- _____ 10. What SI unit is used to measure the number of representative particles in a substance?
 - a. kilogram
 - b. ampere
 - c. kelvin
 - d. mole
- _____ 11. How many hydrogen atoms are in 5 molecules of isopropyl alcohol, C_3H_7O ?
 - a. $5 \times (6.02 \times 10^{23})$
 - b. 5
 - c. 15
 - d. $2.5 \times (6.02 \times 10^{23})$
- _____ 12. Avogadro's number of representative particles is equal to one _____.
 - a. kilogram
 - b. gram
 - c. kelvin
 - d. mole

Chapter 10 Study Guide The Mole Answers

Lingsheng Yao



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