

10

CHEMICAL QUANTITIES

Chapter Test A

A. Matching

Match each description in Column B to the correct term in Column A. Write the letter of the correct description on the line.

Column A

- _____ 1. standard temperature and pressure
- _____ 2. molar volume
- _____ 3. representative particle
- _____ 4. molar mass
- _____ 5. atomic mass
- _____ 6. Avogadro's number
- _____ 7. mole (mol)
- _____ 8. empirical formula
- _____ 9. percent composition
- _____ 10. molar mass

Column B

- a. the volume occupied by a mole of any gas at STP (22.4 L)
- b. the mass in amu of an atom of an element
- c. the number of representative particles in a mole of a substance
- d. the percent by mass of each element in a compound
- e. the mass of a mole of a substance
- f. the formula that gives the lowest whole-number ratio of the elements in a compound
- g. an atom, a formula unit, or a molecule
- h. the mass in grams of a mole of any pure substance
- i. 6.02×10^{23} representative particles of a substance
- j. 0°C and 101.3 kPa

B. Multiple Choice

Choose the best answer and write its letter on the line.

- _____ 11. How many hydrogen atoms are in 4 molecules of isopropyl alcohol, $\text{C}_3\text{H}_7\text{O}$?
- a. $4 \times (6.02 \times 10^{23})$
- b. 4
- c. 32
- d. $32 \times (6.02 \times 10^{23})$
- _____ 12. The mass of a mole of NaCl is its:
- a. molar mass.
- b. empirical formula.
- c. gram atomic mass.
- d. atomic mass.

Chapter 10 Chemical Quantities Test B

Christian G. Meyer



Chapter 10 Chemical Quantities Test B:

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within same page range in single book Addition of many new coloured figures to facilitate greater retention of knowledge Also replacement of earlier figures with newer coloured figures to make understanding better Applied Statistics and Probability for Engineers Douglas C. Montgomery, George C. Runger, 2010-03-22 Montgomery and Runger s bestselling engineering statistics text provides a practical approach oriented to engineering as well as chemical and physical sciences By providing unique problem sets that reflect realistic situations students learn how the material will be relevant in their careers With a focus on how statistical tools are integrated into the engineering problem solving process all major aspects of engineering statistics are covered Developed with sponsorship from the National Science Foundation this text incorporates many insights from the authors teaching experience along with feedback from numerous adopters of previous editions

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