

14

THE BEHAVIOR OF GASES

Chapter Test II

A. Matching

Match a word or phrase in Column I with the correct description in Column II. Write the letter of the correct answer next to the word.

Column I

1. The constant relating unit temperature changes to changes in volume for a fixed amount of gas at constant pressure (the ratio of the change in volume to the change in temperature).
2. The volume of a fixed amount of a gas at constant pressure in the standard state (0°C and 1 atm).
3. The ratio of the mass of a gas to its volume, independent of the actual amount of gas used.
4. An experimental gas constant determined from the ideal gas law at low pressures.
5. A constant of nature that has values of about 8.314 J/mol·K.
6. The a parameter of gas constant equations for determining the gas molecular weight of a gas.
7. An experimental gas constant derived from the ideal gas law under conditions considered to be ideal.
8. $\frac{P_1 V_1}{T_1} = \frac{P_2 V_2}{T_2}$
9. A constant of nature through which Boyle's law can be expressed.
10. Ratio of volume to mass

Column II

- a. standard gas law
- b. ideal gas constant R
- c. density
- d. compressibility
- e. Boyle's law
- f. Boyle constant
- g. universal gas constant, pressure
- h. volume
- i. compressibility
- j. Boyle's law of gasses

B. Multiple Choice

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

1. According to Graham's law, the rate of effusion of a gas is proportional to the square root of its molecular weight. Which of the following gases would effuse most rapidly?
a. the heaviest gas
b. the lightest gas
c. the gas with the highest molecular weight
d. the gas with the lowest molecular weight

Prentice Hall Chemistry Chapter 13 And 14 Test Answers

JS Bruner



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