

Molecular Composition of Gases

SECTION: PART B

QUESTIONS: Answer the following questions in the space provided.

1. _____ The average speed of a gas molecule is most directly related to the _____.
 - (a) volume of the container
 - (b) pressure of the gas
 - (c) temperature of the gas
 - (d) number of molecules in the gas
2. _____ Which value below best represents the average molecular speed of a diatomic gas at 300 K?
 - (a) The value associated with the volume of the gas is proportional.
 - (b) The value associated with the pressure of the gas is proportional.
 - (c) The value associated with the square root of the volume of the gas is proportional.
 - (d) The value associated with the square root of the pressure of the gas is proportional.
3. _____ Which combination of conditions corresponds to the following equation?

$$\text{volume} \propto \text{pressure} \propto \text{temperature}$$

 - a. _____ $\text{PV} = nRT$ is correct. The volume of the gas is proportional to the square of the temperature.
 - b. _____ $\text{PV} = nRT$ is correct. Because $\text{PV} = nRT$, volume is proportional to the temperature.
4. _____ Which of the following is not a correct statement?
 - a. _____ The average molecular speed of a gas is proportional to the square root of the temperature.
 - b. _____ The average molecular speed of a gas is proportional to the square of the temperature.
 - c. _____ The average molecular speed of a gas is proportional to the square of the pressure.

PROBLEMS: Solve the following problems and show your work. Answer all parts of each problem in the space provided.

1. _____ Calculate the volume of 1.00 mole of gas at 300 K and 1.00 atm.

Review Molecular Composition Of Gases Short Answer

K Morrison



Review Molecular Composition Of Gases Short Answer:

Embracing the Melody of Term: An Emotional Symphony within **Review Molecular Composition Of Gases Short Answer**

In some sort of taken by screens and the ceaseless chatter of fast communication, the melodic beauty and emotional symphony created by the written word usually fade in to the background, eclipsed by the relentless sound and interruptions that permeate our lives. But, nestled within the pages of **Review Molecular Composition Of Gases Short Answer** an enchanting literary prize full of natural feelings, lies an immersive symphony waiting to be embraced. Crafted by an elegant musician of language, that captivating masterpiece conducts viewers on a psychological journey, skillfully unraveling the concealed songs and profound impact resonating within each cautiously crafted phrase. Within the depths of this touching examination, we will discover the book is central harmonies, analyze their enthralling publishing design, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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