

Name _____

Gas Laws

21. Q: What is the relationship between volume and moles in Avogadro's Principle?

A: Volume is directly proportional to the number of moles.

22. Q: Calculate the pressure of 1.0 mole of gas in a 10.0 L container at 273 K using the ideal gas law.

A: The pressure is 2.24 atm.

23. Q: According to the ideal gas law, what happens to the pressure if the volume is reduced by half while the temperature and number of moles remain constant?

A: The pressure doubles.

24. Q: If the volume of a gas is tripled and the temperature is doubled, what happens to the pressure according to the combined gas law?

A: The pressure decreases to 2/3 of its original value.

25. Q: Using gas stoichiometry, how many liters of CO_2 are produced from 5.0 L of O_2 in the reaction $\text{C} + \text{O}_2 \rightarrow \text{CO}_2$ at STP?

A: 5.0 L of CO_2 are produced.

26. Q: In the reaction $2\text{NO} + \text{O}_2 \rightarrow 2\text{NO}_2$, how many liters of NO_2 are produced from 4.0 L of NO at STP?

A: 4.0 L of NO_2 are produced.

27. Q: Calculate the volume of N_2 gas required to produce 20.0 L of NH_3 in the reaction $\text{N}_2 + 3\text{H}_2 \rightarrow 2\text{NH}_3$ at STP.

A: 10.0 L of N_2 are required.

28. Q: If the temperature of a gas is increased from 300 K to 600 K and the volume is kept constant, what happens to the pressure?

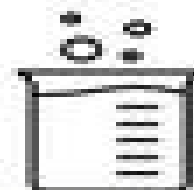
A: The pressure doubles.

29. Q: Using the ideal gas law, how do you calculate the volume of gas if you know the pressure, temperature, and number of moles?

A: $V = nRT/P$

30. Q: In the reaction $\text{H}_2 + \text{Cl}_2 \rightarrow 2\text{HCl}$, how many liters of HCl are produced from 3.0 L of H_2 at STP?

A: 6.0 L of HCl are produced.



Gas Laws Review Guide

Moe Alramahi



Gas Laws Review Guide:

Basic Concepts of Chemistry, 9e Study Guide and Solutions Manual Leo J. Malone, Theodore O. Dolter, 2012-01-03 The 9th edition of Malone's Basic Concepts of Chemistry provides many new and advanced features that continue to address general chemistry topics with an emphasis on outcomes assessment. New and advanced features include an objectives grid at the end of each chapter which ties the objectives to examples within the sections, assessment exercises at the end of each section, and relevant chapter problems at the end of each chapter. A new Math Check allows quick access to the needed basic skill. The first chapter now includes brief introductions to several fundamental chemical concepts, and Chapter Synthesis Problems have been added to the end of each chapter to bring key concepts into one encompassing problem. Every concept in the text is clearly illustrated with one or more step-by-step examples. Making it Real essays have been updated to present timely and engaging real-world applications, emphasizing the relevance of the material they are learning. This edition continues the end-of-chapter Student Workshop activities to cater to the many different learning styles and to engage users in the practical aspect of the material discussed in the chapter. *Ebook: Chemistry: The Molecular Nature of Matter and Change* Silberberg, 2015-01-16 *Ebook Chemistry: The Molecular Nature of Matter and Change* [The Practice of Chemistry Study Guide & Solutions Manual](#) Pamela Mills, Amina El-Ashmawy, 2003-04-14 Designed to help students understand the material better and avoid common mistakes. Also includes solutions and explanations to odd-numbered exercises. **Properties & States of Matter Science Learning Guide** NewPath Learning, 2014-03-01 The Properties Elements Mixtures States of Matter Solids States of Matter Liquids States of Matter Gases Gas Laws Changes of State of Matter and Measuring Matter Aligned to Next Generation Science Standards NGSS and other state standards. **Willing's Press Guide**, 1905 Coverage of publications outside the UK and in non-English languages expands steadily until in 1991 it occupies enough of the Guide to require publication in parts. [Guide to the Current Periodicals and Serials of the United States and Canada](#), 1920 [Oil and Gas Law in the UK](#) Moe Alramahi, 2015-06-30 The UK Oil and Gas industry has evolved at unprecedented speed over the past four decades. It has attracted a great deal of attention from a range of industry players and regulators throughout the world. This is largely because the petroleum industry brings together the most powerful public and private actors in the form of states and trans-national corporations. Oil and Gas Law provides a comprehensive overview of the central legal issues in the UK oil and gas industry today. It is essential reading for the wide range of players in the oil and gas industry, including policy makers, researchers, and academics. Oil and Gas Law covers such important topics as Ownership of oil and gas law, Operating in the UKCS, Oil and gas contracting in the UK, Oil and gas taxation, Dispute resolution in oil and gas contracting, Environmental regulation in UKCS, Health and Safety issues, Renewable energy issues, Decommissioning. Written in a clear and reader-friendly style, this is an invaluable source of reference for all those requiring up-to-date guidance on legal issues affecting the UK oil and gas industry. **Searching the Law - The States** Francis R Doyle, 2022-11-14 This revised two

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