

OL Lab 7: Ideal Gas Law

Learning Objectives

- Explain the physical concepts of temperature and absolute zero
- Define the relationship between pressure, volume and temperature in gases using gas thermometry
- Apply the Ideal Gas Law
- Give examples of acids and bases from everyday life
- Define pH and identify acids and bases using the pH scale
- Apply the Bronsted-Lowry definition of acids and bases to chemical compounds
- Describe the amphoteric and self-ionization capacity of water
- Calculate the pH of a strong acid and base in solution
- Assess whether a neutralization reaction will occur
- Evaluate the outcome of simple acid-base reactions

Introduction

Do you know that you can save a life using the ideal gas law? In the Ideal Gas Law simulation, you will define the physical concept of temperature and absolute zero. You'll learn about the relationship between pressure, volume and temperature in gases using gas thermometry.

Explore your workbench

Your first mission in the Ideal Gas Law simulation will be to have a look at the equipment at your disposal and acknowledge what you would need for your experiment. Learn the roles of each piece of equipment and how they will play a part in your gas thermometry.

Experiment with gas thermometry

Handling extreme temperatures is not a hazard as long as you're a part of this simulation! Observe the changes in the pressure of an ideal gas as you cool it down from the temperature of boiling water to the temperature of boiling nitrogen. You are lucky you're in a virtual lab as this means you can speed up time for the pressure to reach equilibrium! You will have complete freedom to repeat the experiment with any amount of gas and to define the absolute zero temperature.

Are you ready to apply the Ideal Gas Law and everything you learned in gas thermometry in order to assist the transfer of an organ for a transplant surgery?

Report back to the paramedics

Once you have completed your experiment and have collected all of your data, your final mission would be to share the results with the paramedics so that they can keep the organ safe and sound in the correct pressure and temperature conditions to make it all the way to the hospital.

Science Labs Ideal Gas Law Lab 7

Chao Zhang



Science Labs Ideal Gas Law Lab 7:

Illustrated Guide to Home Chemistry Experiments Robert Bruce Thompson, 2012-02-17 For students DIY hobbyists and science buffs who can no longer get real chemistry sets this one of a kind guide explains how to set up and use a home chemistry lab with step by step instructions for conducting experiments in basic chemistry not just to make pretty colors and stinky smells but to learn how to do real lab work Purify alcohol by distillation Produce hydrogen and oxygen gas by electrolysis Smelt metallic copper from copper ore you make yourself Analyze the makeup of seawater bone and other common substances Synthesize oil of wintergreen from aspirin and rayon fiber from paper Perform forensics tests for fingerprints blood drugs and poisons and much more From the 1930s through the 1970s chemistry sets were among the most popular Christmas gifts selling in the millions But two decades ago real chemistry sets began to disappear as manufacturers and retailers became concerned about liability em The *Illustrated Guide to Home Chemistry Experiments* steps up to the plate with lessons on how to equip your home chemistry lab master laboratory skills and work safely in your lab The bulk of this book consists of 17 hands on chapters that include multiple laboratory sessions on the following topics Separating Mixtures Solubility and Solutions Colligative Properties of Solutions Introduction to Chemical Reactions Stoichiometry Reduction Oxidation Redox Reactions Acid Base Chemistry Chemical Kinetics Chemical Equilibrium and Le Chatelier s Principle Gas Chemistry Thermochemistry and Calorimetry Electrochemistry Photochemistry Colloids and Suspensions Qualitative Analysis Quantitative Analysis Synthesis of Useful Compounds Forensic Chemistry With plenty of full color illustrations and photos *Illustrated Guide to Home Chemistry Experiments* offers introductory level sessions suitable for a middle school or first year high school chemistry laboratory course and more advanced sessions suitable for students who intend to take the College Board Advanced Placement AP Chemistry exam A student who completes all of the laboratories in this book will have done the equivalent of two full years of high school chemistry lab work or a first year college general chemistry laboratory course This hands on introduction to real chemistry using real equipment real chemicals and real quantitative experiments is ideal for the many thousands of young people and adults who want to experience the magic of chemistry

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Research on Science Education Norman G. Lederman, Dana L. Zeidler, Judith S. Lederman, 2023-03-17 Volume III of this landmark synthesis of research offers a comprehensive state of the art survey highlighting new and emerging research perspectives in science education Building on the foundations set in Volumes I and II Volume III provides a globally minded up to the minute survey of the science education research community and represents the diversity of the field Each chapter has been updated with new research and new content and Volume III has been further developed to include new and expanded coverage on astronomy and space education epistemic practices related to socioscientific issues design based research interdisciplinary and STEM education inclusive science education and the global impact of nature of science and scientific inquiry literacy As with the previous volumes Volume III is organized around six themes theory and methods of science education research science learning diversity and equity science teaching curriculum and assessment and science teacher education Each chapter presents an integrative review of the research on the topic it addresses pulling together the existing research working to understand historical trends and patterns in that body of scholarship describing how the issue is conceptualized within the literature how methods and theories have shaped the outcomes of the research and where the strengths weaknesses and gaps are in the literature Providing guidance to science education faculty scholars and graduate students and pointing towards future directions of the field Handbook of Research on Science Education Research Volume III offers an essential resource to all members of the science education community **ERDA Energy Research Abstracts**, 1983

The book delves into Science Labs Ideal Gas Law Lab 7. Science Labs Ideal Gas Law Lab 7 is a vital topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Science Labs Ideal Gas Law Lab 7, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Science Labs Ideal Gas Law Lab 7
 - Chapter 2: Essential Elements of Science Labs Ideal Gas Law Lab 7
 - Chapter 3: Science Labs Ideal Gas Law Lab 7 in Everyday Life
 - Chapter 4: Science Labs Ideal Gas Law Lab 7 in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, this book will provide an overview of Science Labs Ideal Gas Law Lab 7. The first chapter will explore what Science Labs Ideal Gas Law Lab 7 is, why Science Labs Ideal Gas Law Lab 7 is vital, and how to effectively learn about Science Labs Ideal Gas Law Lab 7.
 3. In chapter 2, this book will delve into the foundational concepts of Science Labs Ideal Gas Law Lab 7. This chapter will elucidate the essential principles that need to be understood to grasp Science Labs Ideal Gas Law Lab 7 in its entirety.
 4. In chapter 3, this book will examine the practical applications of Science Labs Ideal Gas Law Lab 7 in daily life. The third chapter will showcase real-world examples of how Science Labs Ideal Gas Law Lab 7 can be effectively utilized in everyday scenarios.
 5. In chapter 4, this book will scrutinize the relevance of Science Labs Ideal Gas Law Lab 7 in specific contexts. The fourth chapter will explore how Science Labs Ideal Gas Law Lab 7 is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Science Labs Ideal Gas Law Lab 7. The final chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Science Labs Ideal Gas Law Lab 7.

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