

Ideal Gas Law Practice Worksheet

Solve the following problems using the ideal gas law:

- 1) How many moles of gas does it take to occupy 120 liters at a pressure of 2.3 atmospheres and a temperature of 340 K?

$$P = 2.3 \text{ atm}$$

$$V = 120 \text{ L}$$

$$T = 340 \text{ K}$$

$$n = \frac{PV}{RT}$$

$$n = \frac{2.3 \cdot 120}{0.0821 \cdot 340}$$

$$9.987 \text{ moles}$$

- 2) If I have a 50 liter container that holds 45 moles of gas at a temperature of 200° C, what is the pressure inside the container?

$$P = ?$$

$$V = 50 \text{ L}$$

$$T = 200^\circ\text{C} \rightarrow 473 \text{ K}$$

$$n = 45 \text{ moles}$$

$$P = \frac{45 \cdot 0.0821 \cdot 473}{50}$$

$$34.95 \text{ atm}$$

- 3) It is not safe to put aerosol canisters in a campfire, because the pressure inside the canisters gets very high and they can explode. If I have a 1.0 liter canister that holds 2 moles of gas, and the campfire temperature is 1400° C, what is the pressure inside the canister?

$$V = 1.0 \text{ L}$$

- 4) $n = 2$
How many moles of gas are in a 30 liter scuba canister if the temperature of the canister is 300 K and the pressure is 200 atmospheres?

- 5) I have a balloon that can hold 100 liters of air. If I blow up this balloon with 3 moles of oxygen gas at a pressure of 1 atmosphere, what is the temperature of the balloon?

Gas Law Practice Homework Packet Answers

Karin Nielsen-Saines



Gas Law Practice Homework Packet Answers:

The book delves into Gas Law Practice Homework Packet Answers. Gas Law Practice Homework Packet Answers is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Gas Law Practice Homework Packet Answers, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Gas Law Practice Homework Packet Answers
 - Chapter 2: Essential Elements of Gas Law Practice Homework Packet Answers
 - Chapter 3: Gas Law Practice Homework Packet Answers in Everyday Life
 - Chapter 4: Gas Law Practice Homework Packet Answers in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, this book will provide an overview of Gas Law Practice Homework Packet Answers. This chapter will explore what Gas Law Practice Homework Packet Answers is, why Gas Law Practice Homework Packet Answers is vital, and how to effectively learn about Gas Law Practice Homework Packet Answers.
 3. In chapter 2, this book will delve into the foundational concepts of Gas Law Practice Homework Packet Answers. The second chapter will elucidate the essential principles that need to be understood to grasp Gas Law Practice Homework Packet Answers in its entirety.
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 5. In chapter 4, the author will scrutinize the relevance of Gas Law Practice Homework Packet Answers in specific contexts. The fourth chapter will explore how Gas Law Practice Homework Packet Answers is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Gas Law Practice Homework Packet Answers. This 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 Gas Law Practice Homework Packet Answers.

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