

Gas Stoichiometry #4

How many liters of oxygen gas, at 37.0°C and 0.930 atmospheres, can be collected from the complete decomposition of 50.0 grams of potassium chlorate?



$$\frac{50.0 \text{ g } \cancel{\text{KClO}_3}}{122.55 \text{ g } \cancel{\text{KClO}_3}} \times \frac{1 \text{ mol } \cancel{\text{KClO}_3}}{2 \text{ mol } \cancel{\text{KClO}_3}} \times \frac{3 \text{ mol O}_2}{2 \text{ mol } \cancel{\text{KClO}_3}} = 0.612 \text{ mol O}_2$$

$$V = \frac{nRT}{P} = \frac{(0.612 \text{ mol})(0.0821 \frac{\text{L} \cdot \text{atm}}{\text{mol} \cdot \text{K}})(310 \text{ K})}{0.930 \text{ atm}} = 16.7 \text{ L}$$

Chemistry B Gas Stoichiometry

David Kirk



Chemistry B Gas Stoichiometry:

This book delves into Chemistry B Gas Stoichiometry. Chemistry B Gas Stoichiometry is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Chemistry B Gas Stoichiometry, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Chemistry B Gas Stoichiometry
- Chapter 2: Essential Elements of Chemistry B Gas Stoichiometry
- Chapter 3: Chemistry B Gas Stoichiometry in Everyday Life
- Chapter 4: Chemistry B Gas Stoichiometry in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Chemistry B Gas Stoichiometry. This chapter will explore what Chemistry B Gas Stoichiometry is, why Chemistry B Gas Stoichiometry is vital, and how to effectively learn about Chemistry B Gas Stoichiometry.

3. In chapter 2, the author will delve into the foundational concepts of Chemistry B Gas Stoichiometry. The second chapter will elucidate the essential principles that must be understood to grasp Chemistry B Gas Stoichiometry in its entirety.

4. In chapter 3, this book will examine the practical applications of Chemistry B Gas Stoichiometry in daily life. The third chapter will showcase real-world examples of how Chemistry B Gas Stoichiometry can be effectively utilized in everyday scenarios.

5. In chapter 4, the author will scrutinize the relevance of Chemistry B Gas Stoichiometry in specific contexts. The fourth chapter will explore how Chemistry B Gas Stoichiometry is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, the author will draw a conclusion about Chemistry B Gas Stoichiometry. This chapter will summarize the key points that have been discussed throughout the book.

The 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 Chemistry B Gas Stoichiometry.

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Chemistry B Gas Stoichiometry Introduction

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