

**STUDENT BOOK ANSWERS**
**To come**
**Chapter 9: Gas laws**
**Worked example 9.1**

- 1  $n = \frac{V}{V_m} = \frac{2.33}{22.71} = 0.1026 \text{ mol}$   
 $m = n \times MM = 0.1026 \times (12.01 + (4 \times 1.008)) = 1.646 = 1.65 \text{ g (3sf)}$
- 2  $n = \frac{m}{MM} = \frac{23.0}{14.01 + (3 \times 1.008)} = 1.350 \text{ mol}$   
 $V = n \times V_m = 1.350 \times 24.79 = 33.47 = 33.5 \text{ L (3sf)}$

**Worked example 9.2**

- 1  $2\text{Na(s)} + 2\text{H}_2\text{O(l)} \rightarrow 2\text{NaOH(aq)} + \text{H}_2\text{(g)}$   
 $n(\text{Na}) = \frac{m}{MM} = \frac{1.87}{22.99 + 16.00 + 1.008} = 0.04675 \text{ mol}$   
 $n(\text{H}_2) = \frac{1}{2} \times n(\text{Na}) = 0.5 \times 0.04675 = 0.02338 \text{ mol}$   
 $V = n \times V_m = 0.02338 \times 24.79 = 0.5795 = 0.580 \text{ L (3sf)}$
- 2  $n(\text{HCl}) = \frac{V}{V_m} = \frac{13.4}{22.71} = 0.5900 \text{ mol}$   
 $2\text{KCl(aq)} + \text{H}_2\text{SO}_4\text{(aq)} \rightarrow 2\text{HCl(g)} + \text{K}_2\text{SO}_4\text{(aq)}$   
 $n(\text{KCl}) = n(\text{HCl}) = 0.5900 \text{ mol}$   
 $m(\text{KCl}) = n \times MM = 0.5900 \times (39.10 + 35.45) = 43.98 = 44.0 \text{ g (3sf)}$

**Check your understanding 9.1/9.2**

- 1 The volume of a gas changes with temperature and pressure, both of which compress or expand the gas particles.
- 2 Use the formula  $n = \frac{V}{V_m}$  to convert the volume of gas to a number of moles.  $V_m$  depends upon the temperature of the gas. Use  $m = n \times MM$  to convert the number of moles ( $n$ ) to a mass ( $m$ ) by multiplying by the molecular mass ( $MM$ ).
- 3 **a** **i**  $2 \times 250 = 500 \text{ mL}$   
**ii**  $250 \text{ mL}$   
**b** **i**  $500 \text{ mL}$   
**ii** Nothing, as the law of combining volumes only applies to gases.

# Chapter 9 Notes Cengage Learning

**S Baum**



## **Chapter 9 Notes Cengage Learning:**

The book delves into Chapter 9 Notes Cengage Learning. Chapter 9 Notes Cengage Learning is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Chapter 9 Notes Cengage Learning, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
    - Chapter 1: Introduction to Chapter 9 Notes Cengage Learning
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    - Chapter 3: Chapter 9 Notes Cengage Learning in Everyday Life
    - Chapter 4: Chapter 9 Notes Cengage Learning in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, the author will provide an overview of Chapter 9 Notes Cengage Learning. The first chapter will explore what Chapter 9 Notes Cengage Learning is, why Chapter 9 Notes Cengage Learning is vital, and how to effectively learn about Chapter 9 Notes Cengage Learning.
  3. In chapter 2, this book will delve into the foundational concepts of Chapter 9 Notes Cengage Learning. This chapter will elucidate the essential principles that need to be understood to grasp Chapter 9 Notes Cengage Learning in its entirety.
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