#### Connecting to Your World

You know that without oxygen. to breathe, you could not live. But did you know that on gen plays

another important role in your life? High in the atmosphere, a different form of payeen, called ozone, forms a layer that filters.

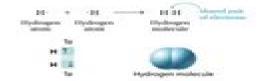
> out harmful radiation from the sun. The colors in this map indicate the concentrations of ozone in various parts of Earth's atmosphere in this section, you will learn how oxygen atoms canjoin in pairs to form the oxygen you breathe and can also join in groups of three oxygen atoms to florein gazone.

#### The Octet Rule in Covalent Bonding

Recall that when ionic compounds form, electrons tend to be transferred so that each ion acquires a noble gas configuration. A similar rule applies for consient bonds. 😂 in covalent bonds, electron sharing usually occurs so that atoms attain the electron configurations of poblic gases. For example, each hydrogen atom has one electron. But a pair of hydrogen atoms share these two electrons when they form a covalent bond in a hydrogen molecule. Each hydrogen atom thus attains the electron configuration of belium, a noble gas with two electrons. Combinations of atoms of the nonmetals and metalloids in Groups 6A, 5A, 6A, and 7A of the periodic table are likely to form covalent bonds. In this case the atoms usually acquire a total of eight electrons, or an octet, by sharing electrons, so that the occet rule applies.

### Single Covalent Bonds

The hydrogen anoms in a hydrogen molecule are held together mainly by the attraction of the shared electrons to the positive model. Two atoms held together by sharing a pair of electrons are joined by a single savalent bond. Hydrogen gas consists of distornic molecules whose atoms share only one pair of electrons, forming a single covalent bond.



#### Guide for Reading

#### Key Concepts

- What is the result of electron. Tabolod Involuncy in goleans
- How do electron dot structures
- represent shared electrons? How do attorns form double or
- telephonological beyonds/1
- How are considerate considerat Name And Address of Pages and Address Teleproped Impeliance
- 9. More in the strength of a allowalterni blowed included to its Typewal allowardation emergy?
- How are oxygen atoms borded. the management
- 'Bifruit are some escaptions to titles account make?"

#### Vocabulary

sangle covalent bond stimuctural formula weeksmed pair About the Consistency Balance tengths deplusioned bound. coordinate covalent bond polystomic sec bond dissociation energy personal property of the party of the party

#### Reading Strategy

Identifying Main Idea/Details Cost title engine billion to their marks. bright following the heading The Octot Rule in Counters Bonding As your read, list expension of Roose Office make its Softlineard suffrem as strigle covalent band, a double consident blood, and a triple cova-Servet Second House.

Section 8.2. The Nature of Covalent Bonding

# **Reading For 8 2 The Nature Of Covalent Bonding**

**Ian Pickup** 

**Reading For 8 2 The Nature Of Covalent Bonding:** 

This book delves into Reading For 8 2 The Nature Of Covalent Bonding. Reading For 8 2 The Nature Of Covalent Bonding is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Reading For 8 2 The Nature Of Covalent Bonding, encompassing both the fundamentals and more intricate discussions.

- 1. This book is structured into several chapters, namely:
  - Chapter 1: Introduction to Reading For 8 2 The Nature Of Covalent Bonding
  - Chapter 2: Essential Elements of Reading For 8 2 The Nature Of Covalent Bonding
  - Chapter 3: Reading For 8 2 The Nature Of Covalent Bonding in Everyday Life
  - $\circ\,$  Chapter 4: Reading For 8 2 The Nature Of Covalent Bonding in Specific Contexts
  - ∘ Chapter 5: Conclusion
- 2. In chapter 1, this book will provide an overview of Reading For 8 2 The Nature Of Covalent Bonding. The first chapter will explore what Reading For 8 2 The Nature Of Covalent Bonding is, why Reading For 8 2 The Nature Of Covalent Bonding is vital, and how to effectively learn about Reading For 8 2 The Nature Of Covalent Bonding.
- 3. In chapter 2, the author will delve into the foundational concepts of Reading For 8 2 The Nature Of Covalent Bonding. The second chapter will elucidate the essential principles that need to be understood to grasp Reading For 8 2 The Nature Of Covalent Bonding in its entirety.
- 4. In chapter 3, this book will examine the practical applications of Reading For 8 2 The Nature Of Covalent Bonding in daily life. This chapter will showcase real-world examples of how Reading For 8 2 The Nature Of Covalent Bonding can be effectively utilized in everyday scenarios.
- 5. In chapter 4, the author will scrutinize the relevance of Reading For 8 2 The Nature Of Covalent Bonding in specific contexts. The fourth chapter will explore how Reading For 8 2 The Nature Of Covalent Bonding is applied in specialized fields, such as education, business, and technology.
- 6. In chapter 5, the author will draw a conclusion about Reading For 8 2 The Nature Of Covalent Bonding. 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. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Reading For 8 2 The Nature Of Covalent Bonding.

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## Reading For 8 2 The Nature Of Covalent Bonding Introduction

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