

## Chapter 2: Water

### 2.1 Water Weak Interactions in Aqueous Systems

#### Water's Qualities:

-Unusual properties of water caused by Hydrogen Bonds:

- 1) High Surface tension – beads up
- 2) High heat capacity
- 3) High Heat of Vaporization – a lot of energy is needed for water to boil
- 4) Expands as it freezes – the solid forms of water (ice) floats instead of sinks like most

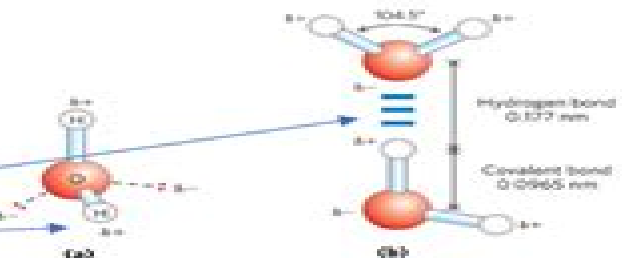
#### Inter/Intramolecular Forces 1-HYDROGEN BONDING

-Hydrogen bonding occurs when the hydrogen atoms of one molecule is attracted to another molecule that has Nitrogen, Oxygen, and Sulfur (NOS).

- Oxygen is the most electronegative followed by sulfur and Nitrogen.

-Picture to the right: Water Molecules

- O is more electronegative than H
- This creates a POLAR covalent bond between H and O
- The H-Bond occurs between water molecules
- O has a partial negative (-) charge
- H has a partial positive (+) charge



-Polar function groups form H-Bonds with one another and water

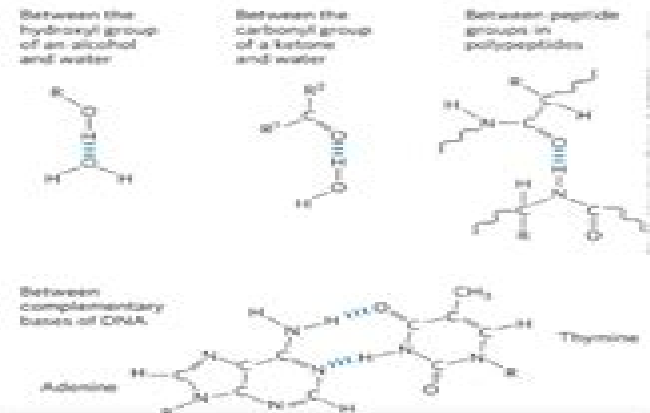


-Angle and distance affect the strength of H-Bonds



-we will see H-Bonds occur between:

- Hydroxyl group of alcohol and water
- Carbonyl group of a ketone and water
- between peptide groups and peptides
- complementary bases of DNA



## Section 2 Chem Study Guide Answers

**Hongru Du**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

## **Section 2 Chem Study Guide Answers:**

## Section 2 Chem Study Guide Answers Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Section 2 Chem Study Guide Answers**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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### Table of Contents Section 2 Chem Study Guide Answers

1. Understanding the eBook Section 2 Chem Study Guide Answers
  - The Rise of Digital Reading Section 2 Chem Study Guide Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Section 2 Chem Study Guide Answers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Section 2 Chem Study Guide Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Section 2 Chem Study Guide Answers
  - Personalized Recommendations
  - Section 2 Chem Study Guide Answers User Reviews and Ratings
  - Section 2 Chem Study Guide Answers and Bestseller Lists

5. Accessing Section 2 Chem Study Guide Answers Free and Paid eBooks
  - Section 2 Chem Study Guide Answers Public Domain eBooks
  - Section 2 Chem Study Guide Answers eBook Subscription Services
  - Section 2 Chem Study Guide Answers Budget-Friendly Options
6. Navigating Section 2 Chem Study Guide Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - Section 2 Chem Study Guide Answers Compatibility with Devices
  - Section 2 Chem Study Guide Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Section 2 Chem Study Guide Answers
  - Highlighting and Note-Taking Section 2 Chem Study Guide Answers
  - Interactive Elements Section 2 Chem Study Guide Answers
8. Staying Engaged with Section 2 Chem Study Guide Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Section 2 Chem Study Guide Answers
9. Balancing eBooks and Physical Books Section 2 Chem Study Guide Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Section 2 Chem Study Guide Answers
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Section 2 Chem Study Guide Answers
  - Setting Reading Goals Section 2 Chem Study Guide Answers
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Section 2 Chem Study Guide Answers
  - Fact-Checking eBook Content of Section 2 Chem Study Guide Answers
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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