

# Basic Chemistry Study Guide 2

## 1. Hydrogen bonds

1. Form between two polar molecules **covalent bonds**
2. A hydrogen's  $\delta^+$  region is attracted to a  $\delta^-$  region in another molecule.
3. Form between water molecules (Where are the  $\delta^+$  and  $\delta^-$  regions in a water molecule? **hydrogen bonds, at the top of the symbol**)
4. Each hydrogen bond is very weak (can be easily formed and broken).
5. There are many hydrogen bonds in water. Together, these bonds give water its unique properties that are essential for life
6. One of these properties is the ability to be a solvent for other polar molecules.
7. Hydrogen bonds are depicted in figures as dotted or dashed lines between two atoms.

## 2. Solutions, solvents, and solutes

1. Water is the most abundant molecule in living organisms, and 60% of human body weight is water.
2. Water is located inside and outside of our cells.
3. Body fluids are solutions
4. Define the terms **solution, solvent, and solute**. **Solvent: a substance capable of dissolving other polar molecules and ionic bonds, solutes: molecules dissolved in the solvent, solution: homogeneous mixture**

## 3. How substances dissolve in water

1. When a solute dissolves, it becomes surrounded by water molecules.
2. For a solute to dissolve, it must attract water molecules.
3. What kinds of substances attract water molecules? **Sugars, nucleic acids, and amino acids**
4. When a solute dissolves it forms hydrogen bonds with water molecules.
5. Define the terms **ion, cation, and anion**. **ion: atom with a charge, cation: positively charged ion, anions: negatively charged ion**
6. Define the terms **hydrophilic** and **hydrophobic** **Hydrophilic: attracted to water, hydrophobic: afraid of water**
7. What types of molecules are hydrophilic and what types are hydrophobic? **Nonpolar hydrophobic, polar hydrophilic**

# Study Guide For Exploring Chemistry

**Xiang Xie**



## Study Guide For Exploring Chemistry :

*Exploring Chemistry* Eileen Delgado Johann, Ana Ciereszko, Dorma Gottlieb, 2003-01      **Study Guide and Solutions Manual for Organic Chemistry** Susan McMurry, 1996 This revision of the best selling organic chemistry textbook today has been fully updated and revised to offer more applications a completely new chapter and dozens of new problems and examples McMurry's text is currently in use at hundreds of colleges and universities throughout the United States and Canada and is an international bestseller from the United Kingdom to the Pacific Rim In this edition McMurry continues to do what he does best focus on the important material of the course and explain it in a concise clear way      *Pamphlet - Dept. of the Army* United States. Department of the Army, 1951      **Solutions Manual and Study Guide to Accompany Introduction to Organic Chemistry, 4th Ed** Paul A. Bartlett, Judith G. Koch, 1992      **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office, 1977      **Resources in Education** , 1976      *Recording for the Blind & Dyslexic, ... Catalog of Books* , 1996      *USAFI Standard Nomenclature List* United States Armed Forces Institute, 1953

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- Chapter 5: Conclusion

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## **Table of Contents Study Guide For Exploring Chemistry**

1. Understanding the eBook Study Guide For Exploring Chemistry
  - The Rise of Digital Reading Study Guide For Exploring Chemistry
  - Advantages of eBooks Over Traditional Books
2. Identifying Study Guide For Exploring Chemistry
  - 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 Study Guide For Exploring Chemistry
  - User-Friendly Interface
4. Exploring eBook Recommendations from Study Guide For Exploring Chemistry
  - Personalized Recommendations
  - Study Guide For Exploring Chemistry User Reviews and Ratings
  - Study Guide For Exploring Chemistry and Bestseller Lists
5. Accessing Study Guide For Exploring Chemistry Free and Paid eBooks
  - Study Guide For Exploring Chemistry Public Domain eBooks
  - Study Guide For Exploring Chemistry eBook Subscription Services
  - Study Guide For Exploring Chemistry Budget-Friendly Options
6. Navigating Study Guide For Exploring Chemistry eBook Formats
  - ePub, PDF, MOBI, and More
  - Study Guide For Exploring Chemistry Compatibility with Devices
  - Study Guide For Exploring Chemistry Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Study Guide For Exploring Chemistry
  - Highlighting and Note-Taking Study Guide For Exploring Chemistry
  - Interactive Elements Study Guide For Exploring Chemistry

- 
8. Staying Engaged with Study Guide For Exploring Chemistry
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Study Guide For Exploring Chemistry
  9. Balancing eBooks and Physical Books Study Guide For Exploring Chemistry
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Study Guide For Exploring Chemistry
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Study Guide For Exploring Chemistry
    - Setting Reading Goals Study Guide For Exploring Chemistry
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Study Guide For Exploring Chemistry
    - Fact-Checking eBook Content of Study Guide For Exploring Chemistry
    - 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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