

# 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 Chemistry Answer

**Susan McMurry, John McMurry**



## Study Guide Chemistry Answer:

Organic Chemistry, 5e Student Study Guide and Solutions Manual David R. Klein, Laurie S. Starkey, 2025-03-18 Success in organic chemistry requires mastery in two core aspects fundamental concepts and the skills needed to apply those concepts and solve problems With Organic Chemistry Student Study Guide and Solutions Manual 5th Edition students can learn to become proficient at approaching new situations methodically based on a repertoire of skills These skills are vital for successful problem solving in organic chemistry *Organic Chemistry Study Guide with Solutions Manual* Neil E.

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McMurry, 2002-08 Contains a brief overview of every chapter review of skills self tests and the answers and detailed solutions to all end of chapter problems in the textbook Study Guide and Solutions Manual to Accompany Organic Chemistry G.

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**Study Guide & Solutions Manual to Accompany Organic Chemistry** Mary H. Bailey, 1998 *Fundamentals of Organic Chemistry, Textbook, Study Guide and Solutions Manual* T. W. Graham Solomons, 1996-08-15 A realistic approach to the study of mechanisms The book addresses real functional group chemistry with an emphasis on the biological environmental and medical applications of organic chemistry

**Study Guide & Solutions Manual to Accompany Organic Chemistry, Third Edition** G. Marc Loudon, Joseph G. Stowell, 1995

**Study Guide and Solutions Manual** Neil E. Schore, 2002-08-02

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