

Basic Chemistry Study Guide 2

1. Hydrogen bonds

1. Form between two polar molecules **covalent bonds**
2. A hydrogen's δ^+ region is attracted to a δ^- region in another molecule.
3. Form between water molecules (Where are the δ^+ and δ^- 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**

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Study Guide with Selected Solutions Karen Timberlake, 2002-08-06 Written by the author the Study Guide is keyed to the learning goals in the text and designed to promote active learning through a variety of exercises with answers and mastery exams Also contains complete solutions to odd numbered problems **Subject-catalogue [ed. by F. Vinton].** Princeton univ, lib, 1884 Subject Index of the Modern Works Added to the Library of the British Museum in the Years ... British Museum, 1902 Subject-catalogue of the Library of the College of New Jersey, at Princeton Princeton University. Library, 1884 Subject Guide to Books in Print , 1997 *Subject Index of Modern Books Acquired* British Library, 1906 *Subject Index of the Modern Works Added to the British Museum Library* British Museum. Department of Printed Books, 1906 *Research in Education* , 1974 *Resources in Education* , 1974 Subject Index of Modern Works Added to the Library of the British Museum in the Years 1881-1900 British Museum. Department of Printed Books, 1902 *Catalog Issue of the Maryville College Bulletin* Maryville College, 1911 **Index-catalogue of the Library of the Surgeon-general's Office, United States Army** National Library of Medicine (U.S.), 1922 Subject Index of the Modern Works Added to the Library of the British Museum British Museum. Department of Printed Books, 1891 *Subject Index of the Modern Works Added to the Library of the British Museum* British Museum, 1897 **A Subject Index of the Modern Works Added to the Library of the British Museum in the Years 1885-1890** George Knottesford Fortescue, 1891 **A Subject Index of the Modern Works Added to the Library of the British Museum in the Years 1880-[95]** British Museum. Department of Printed Books, 1891 *Michigan Test for Teacher Certification Study Guide* , 2001 Subject Index of the Modern Works Added to the Library of the British Museum in the Years ... British Museum. Department of Printed Books, 1903 **Index-catalogue of the Library of the Surgeon General's Office, United States** USA. Surgeon General's Office. Library, 1898 **School** , 1922

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