

Solutions, acids, and bases

1. VOCABULARY REVIEW OF SOLUTIONS

Solute - what is **dissolved** in the solvent to form a solution.

Solvent - the substance that **dissolves** the solute, ordinarily a liquid when the solute and the solvent come together to form a **homogeneous mixture**.

Miscible - two mix in all proportions (none to be mixed) - liquids will pour each over

Immiscible - don't mix in any proportions (none to be mixed)

Examples of miscible/immiscible - ethanol/water/methanol, etc. oil/water/acetone

Solute - aspect of being **dissolved** in liquid

Insoluble - a substance (tends to be a solid) that **will not dissolve** in a solvent - an example is sand and water

Suspension - looks like a **solution** when **stirred**, the **solutes** a bit of water (acetone/ethanol). Also it is a **hetero** - gaseous mixture where the small solid particles of a substance are spread throughout a liquid without settling.

Unsaturated - solutes with solubility chart when the temperature would be enough to make a substance dissolve but at a greater amount of solute solubility **less solute dissolves than can** (ex. salt @ 20°C temp)

Saturated - solutes with solubility chart when the temperature - solubility relationship is at the line in other words a **solution with solute has reached** at the **maximum possible amount**.

Supersaturated - contains **more than the max. amount** of solute that can be dissolved at the temperature on the solubility chart this would mean the grams of solute would go above the line.

2. SOLUBILITY VS. TEMPERATURE CHART



Above the line - **supersaturated**

At the line - **saturated**

Under the line - **unsaturated**

3. METHODS OF SEPARATION

Filtration - separate particles by **size**

Distillation - separate by **boiling point** - where two liquids to be separated.

Extraction - where one to remove a **liquid from a solid** by **transferring** the **liquid** to a **gaseous phase**.

Centrifugation - separating molecules by their **densities** by **spinning** them **quick**.

Decanting - process of separating insoluble or suspension solutions by **pouring** away the liquid from the solid.

Chromatography - separation by the **rates** at which components of different solutions **move through** a **medium** (ex. gel electrophoresis)

Acid And Bases Study Guide

Leo J. Malone, Theodore O. Dolter



Acid And Bases Study Guide:

Chemistry, Student Study Guide James E. Brady, Fred Senese, 2008-01-28 The image on the front cover depicts a carbon nanotube emerging from a glowing plasma of hydrogen and carbon as it forms around particles of a metal catalyst Carbon nanotubes are a recently discovered allotrope of carbon Three other allotropes of carbon buckyballs graphite and diamond are illustrated at the left as is the molecule methane CH_4 from which nanotubes and buckyballs can be made The element carbon forms an amazing number of compounds with structures that follow from simple methane found in natural gas to the complex macromolecules that serve as the basis of life on our planet The study of chemistry also follows from the simple to the more complex and the strength of this text is that it enables students with varied backgrounds to proceed together to significant levels of achievement

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Leo J. Malone, Theodore O. Dolter, 2012-01-03 The 9th edition of Malone's Basic Concepts of Chemistry provides many new and advanced features that continue to address general chemistry topics with an emphasis on outcomes assessment New and advanced features include an objectives grid at the end of each chapter which ties the objectives to examples within the sections assessment exercises at the end each section and relevant chapter problems at the end of each chapter A new Math Check allows quick access to the needed basic skill The first chapter now includes brief introductions to several fundamental chemical concepts and Chapter Synthesis Problems have been added to the end of each chapter to bring key concepts into one encompassing problem Every concept in the text is clearly illustrated with one or more step by step examples Making it Real essays have been updated to present timely and engaging real world applications emphasizing the relevance of the material they are learning This edition continues the end of chapter Student Workshop activities to cater to the many different learning styles and to engage users in the practical aspect of the material discussed in the chapter

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Organic Chemistry Study Guide with Solutions Manual Neil E. Schore, 2007 The guide includes chapter introductions that highlight new material chapter outlines detailed comments for each chapter section a glossary and solutions to the end of chapter problems presented in a way that shows students how to reason their way to the answer

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