

CHAPTER 1 ACIDS, BASES, BUFFERS

Acids, Bases are defined by four main theories

1. Traditional theory / concept
2. Arrhenius theory
3. Bronsted and Lowry theory
4. Lewis theory

1. Traditional theory / concept

- Acid : are the substance
 - Which converts blue litmus paper to red
 - Having the $\text{PH} < 7$
 - Sour Taste
 - React with bases to form salts and Water
 - Eg :- Hydrochloric acid (HCl)
- Base : are the substance
 - which converts red litmus paper to blue
 - Having the $\text{PH} > 7$
 - Bitter taste
 - React with Acids to form salts and water
 - Eg: Sodium Hydroxide (NaOH)

2. Arrhenius theory*

- In 1884 of Svante Arrhenius Also known as, Arrhenius theory of ionization
- Electron dissociation theory
- This theory define acids & bases according to their formation of ions when dissolved in water
- An Acid is a substance that can release hydrogen ion (H^+) when dissolved in water or A substance which when dissolved in water gives hydrogen ions (H^+) is known as acid

E.g. Hydrochloric acid (HCl)



Acid - forms H^+ in water

Chapter 1study Guide Acids And Bases

Susan McMurry



Chapter 1 study Guide Acids And Bases:

Basic Concepts of Chemistry, 9e Study Guide and Solutions Manual 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 of 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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Study Guide and Solutions Manual to Accompany Fundamentals of Organic Chemistry McMurry,Susan McMurry,1990

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