

Chapter 16: Acids and Bases

Learning goals

- Define acids and bases and compare and contrast the Lowry acid-base models
- Identify and predict conjugate acid-base pairs
- Calculate $[H_3O^+]$ and $[OH^-]$ based on the autoionization of water
- Identify solutions as acidic/basic/neutral
- Relate acid and base strength to K_a values
- Calculate $[H_3O^+]$, $[OH^-]$, pH, and pOH of a strong acid or base solution, and convert pH and pOH
- Calculate the pH of a weak acid or base solution using an ICE table and the acid dissociation constant

Note: We are not including percent ionization or mixtures of acids (subsections of 16.7)

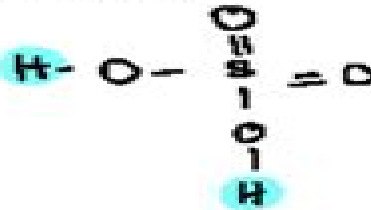
Characteristics of acids and bases (16.2)

Acids

- sour taste
- dissolve metals
- neutralize bases
- turn blue litmus paper red

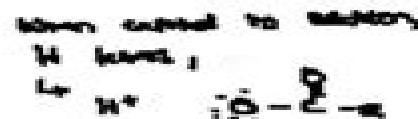
Bases

- Bitter taste
- Slippery
- Neutralize acids
- Turn red litmus paper blue



inorganic acids

organic acids - functional groups
- small group
- carboxylic acid



Lecture Outlines For General Chemistry Principles And Structure

Columbia University. Teachers College



Lecture Outlines For General Chemistry Principles And Structure:

Lecture Outlines for General Chemistry Ronald O. Ragsdale, James E. Brady, Gerard E. Humiston, 1986-04-01

General Chemistry James E. Brady, Gerard E. Humiston, 1986 The Fifth Edition retains the pedagogical strengths that made the previous editions so popular and has been updated reorganized and streamlined Changes include more accessible introductory chapters with greater stress on the logic of the periodic table earlier introduction of redox reactions greater emphasis on the concept of energy a new section on Lewis structures earlier introduction of the ideal gas law and a new development of thermodynamics Each chapter ends with review questions and problems

Lecture Outline-General Chemistry Kenneth W. Whitten, Raymond E. Davis, Larry Peck, George G. Stanley, 2006-03 By Charles H Atwood and Kenneth W Whitten both of the University Georgia Richard M Hedges of Texas A M University and revised by Kimberly Schurmeier of the University of Georgia Detailed lecture outlines of all of the text chapters are available to free students from tedious extensive note taking The outlines enable the students to listen more efficiently because they know that the important ideas and terms are already written down for them

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Board of Agriculture, 1919 **Announcement** Columbia University. Teachers College, 1928 The Dental Cosmos J. D. White, John Hugh McQuillen, George Jacob Ziegler, James William White, Edward Cameron Kirk, Lovick Pierce Anthony, 1915

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 - Chapter 1: Introduction to Lecture Outlines For General Chemistry Principles And Structure
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 - Chapter 3: Lecture Outlines For General Chemistry Principles And Structure in Everyday Life
 - Chapter 4: Lecture Outlines For General Chemistry Principles And Structure in Specific Contexts
 - Chapter 5: Conclusion
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- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Lecture Outlines For General Chemistry Principles And Structure.

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