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Acids and Bases

2009

learn about acids and bases chemical components of the natural world that play key roles in medicine and industry

Acids, Bases and Salts

1998

acids bases and salts chemlab

Acids and Bases

2008-08-15

did you know that cola is an acid and your saliva is a base young readers will learn about common acids and bases from lemon juice to ammonia through vivid examples and exciting illustrations this book will eagerly explore these important chemical compounds

Acids, Bases and Salts

1968

acids and bases are ubiquitous in chemistry our understanding of them however is dominated by their behaviour in water transfer to non aqueous solvents leads to profound changes in acid base strengths and to the rates and equilibria of many processes for example synthetic reactions involving acids bases and nucleophiles isolation of pharmaceutical actives through salt formation formation of zwitter ions in amino acids and chromatographic separation of substrates this book seeks to enhance our understanding of acids and bases by reviewing and analysing their behaviour in non aqueous solvents the behaviour is related where possible to that in water but correlations and contrasts between solvents are also presented fundamental background material is provided in the initial chapters quantitative aspects of acid base equilibria including definitions and relationships between solution ph and species distribution the influence of molecular structure on acid strengths and acidity in aqueous

solution solvent properties are reviewed along with the magnitude of the interaction energies of solvent molecules with especially ions the ability of solvents to participate in hydrogen bonding and to accept or donate electron pairs is seen to be crucial experimental methods for determining dissociation constants are described in detail in the remaining chapters dissociation constants of a wide range of acids in three distinct classes of solvents are discussed protic solvents such as alcohols which are strong hydrogen bond donors basic polar aprotic solvents such as dimethylformamide and low basicity and low polarity solvents such as acetonitrile and tetrahydrofuran dissociation constants of individual acids vary over more than 20 orders of magnitude among the solvents and there is a strong differentiation between the response of neutral and charged acids to solvent change ion pairing and hydrogen bonding equilibria such as between phenol and phenoxide ions play an increasingly important role as the solvent polarity decreases and their influence on acid base equilibria and salt formation is described

Acids, Bases, and the Chemistry of the Covalent Bond

1961

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A New View of Current Acid-base Theories

1982

the activities in this book explain elementary concepts in the study of chemistry including acids bases solvents solutions crystals and more general background information suggested activities questions for discussion and answers are included

Acids and Bases

2013-01-31

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Acids, Bases, and Salts

2005

what is the difference between a base and an alkali how do acids react with metals what does the ph scale measure this title explores what gives acids and bases their properties how they react with each other and how we use them in our everyday lives you will also find several experiments that can be done at home

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very good no highlights or markup all pages are intact

Acids, Bases, and Solutions

1949

provides photographic and textual demonstrations of a range of chemistry tests which explore the properties of acids bases and salts suggested level secondary

Acids, Bases and Non-aqueous Systems

2023

hard and soft acids and bases principle in organic chemistry deals with various phenomena in organic chemistry that are directly related to or derived from the hard and soft acids and bases hsb principle topics covered range from chemical reactivity to displacement reactions along with various hsb principle applications this text consists of 11 chapters and begins with a historical overview of the hsb concept followed by a classification of hard and soft acids and bases and their theoretical descriptions the reader is methodically introduced to the stability of organic compounds and complexes displacement reactions of hsb and the chemistry of alkenes aromatic and heterocyclic compounds the reactivity of organophosphorus and carbonyl compounds organosulfur compounds and other chalcogenides and organoboranes is also considered the book concludes with an evaluation of other applications of the hsb principle paying particular attention to solubility and protonation carbenes and nitrenes the organic chemistry of group iv elements and the reactions of organohalides grignard and related agents this book is intended for senior undergraduates or graduate chemistry majors as well as organic chemists who are not familiar with the hsb concept

Acids, Bases, and Salts

1998

the first part of this book looks at the consequence of chemical and topological defects existing on real surfaces which explain the wettability of super hydrophilic and super hydrophobic surfaces there follows an in depth analysis of the acido basicity of surfaces with as an illustration different wettability experiments on real materials the next chapter deals with various techniques enabling the measurement of acido basicity of the surfaces including ir and xps technics the last part of the book presents an electrochemical point of view which explains the surface charges of the oxide at contact with water or other electrolyte solutions in the frame of bronsted acido basicity concept various consequences are deduced from such analyses illustrated by original measurement of the point of zero charge or by understanding the basic principles of the electrowetting experiments

Acids, Bases, and Salts

2000-08-01

understanding acid base equilibria made easy for students in chemistry biochemistry biology environmental and earth sciences

solving chemical problems be it in education or in real life often requires the understanding of the acid base equilibria behind them based on many years of teaching experience heike kahlert and fritz scholz present a powerful tool to meet such challenges they provide a simple guide to the fundamentals and applications of acid base diagrams avoiding complex mathematics this textbook is richly illustrated and has full color throughout it offers learning features such as boxed results and a collection of formulae

Fundamentals of Acids, Bases, Buffers and Their Application to Biochemical Systems

2007

a unified picture of acid base behavior in aprotic organic solvents is presented based on an extensive survey of the literature and experimental results of the author and associates evidence given to support this picture includes data pertaining to colligative properties of acids bases and salts and also conductance dielectric constants distribution between immiscible solvents and spectral absorption in the infrared visible and ultraviolet the acids upon which attention is centered are proton donor compounds that are measurably ionized in water such as aliphatic and aromatic carboxylic acids substituted phenols and mineral acids the bases of principal interest are likewise compounds capable of forming ions in water for example aliphatic and aromatic amines and derivatives of guanidine or pyridine the solvents emphasized are hydrocarbons and halohydrocarbons but data for dipolar aprotic solvents for example acetone acetonitrile and nitrobenzene are included contrasts in acid base behavior and in acidity and basicity scales in aprotic and water like solvents are discussed the role of hydrogen bonding in aprotic solvents is discussed at length important types of hydrogen bonded structures include chelate rings self associated acids bases and salts hydrogen bonded ion pairs and homo and heteroconjugate cations and anions examples are given in which hydrogen bonding of these types affects such properties as the absorption spectrum of a salt the catalytic effect of an acid and the accurate location of a titration endpoint author

Acids and Bases

1968

the dissociation of strong and weak electrolytes the properties of acid base indicators the colorimetric determination of hydrogen ion concentration

Acids and Bases

1997

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ChemLab

1969

based on the premise that many if not most reactions in organic chemistry can be explained by variations of fundamental acid base concepts organic chemistry an acid base approach provides a framework for understanding the subject that goes beyond mere memorization the individual steps in many important mechanisms rely on acid base reactions and the ability to see these relationships makes understanding organic chemistry easier using several techniques to develop a relational understanding this textbook helps students fully grasp the essential concepts at the root of organic chemistry providing a practical learning experience with numerous opportunities for self testing the book contains checklists of what students need to know before they begin to study a topic checklists of concepts to be fully understood before moving to the next subject area homework problems directly tied to each concept at the end of each chapter embedded problems with answers throughout the material experimental details and mechanisms for key reactions the reactions and mechanisms contained in the book describe the most fundamental concepts that are used in industry biological chemistry and biochemistry molecular biology and pharmacy the concepts presented constitute the fundamental basis of life processes making them critical to the study of medicine reflecting this emphasis most chapters end with a brief section that describes biological applications for each concept this text provides students with the skills to proceed to the next level of study offering a fundamental understanding of acids and bases applied to organic transformations and organic molecules

Acids and Bases: Their Quantitative Behaviour

1986

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The History of Blood Gases, Acids and Bases

1986

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Physical Chemistry and Acid-Base Properties of Surfaces

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Acid Bases in Analytical Chemistry

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Acid-Base Diagrams

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Acid-base Behavior in Aprotic Organic Solvents

1937

Acid-base Indicators

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The Lewis Acid-base Concepts

1901

The Dissociation of Certain Acids, Bases, and Salts, at Different Temperatures

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Electrochemical Analysis

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