

Acids and Bases

How do acids and bases behave in water?

Why?

Acids and bases play an important role in our lives. Numerous biological processes, industrial applications, and even environmental problems are a function of the acidity or basicity (alkalinity) of aqueous solutions. It is therefore important to understand what makes a substance behave as an acid or a base when dissolved in water. In this activity, we will explore the physical and chemical properties of acids and bases.

Model 1 – Arrhenius Acids and Bases

Common Name for Aqueous Solution	Chemical Formula	Found in...	Tastes...	Turns Litmus Paper...	Conducts Electricity?	Acid or Base
Acetic acid	$\text{HC}_2\text{H}_3\text{O}_2(\text{aq})$	Vinegar	Sour	Red	Yes	Acid
Benzoic acid	$\text{HC}_7\text{H}_5\text{O}_2(\text{aq})$	Food preservative	Sour	Red	Yes	Acid
Phosphoric acid	$\text{H}_3\text{PO}_4(\text{aq})$	Soda pop	Sour	Red	Yes	Acid
Hydrochloric acid	$\text{HCl}(\text{aq})$	Stomach acid	Sour	Red	Yes	Acid
Citric acid	$\text{H}_2\text{C}_6\text{H}_7\text{O}_2(\text{aq})$	Citrus fruits	Sour	Red	Yes	Acid
Ascorbic acid	$\text{H}_2\text{C}_6\text{H}_7\text{O}_6(\text{aq})$	Vitamin C	Sour	Red	Yes	Acid
Magnesium hydroxide	$\text{Mg}(\text{OH})_2(\text{aq})$	Milk of magnesia	Bitter	Blue	Yes	Base
Aluminum hydroxide	$\text{Al}(\text{OH})_3(\text{aq})$	Antacids	Bitter	Blue	Yes	Base
Barium hydroxide	$\text{Ba}(\text{OH})_2(\text{aq})$	Lubricants	POISON	Blue	Yes	Base
Sodium hydroxide	$\text{NaOH}(\text{aq})$	Drain cleaner	POISON	Blue	Yes	Base

- Refer to Model 1.
 - What is the common chemical name for Vitamin C?
ascorbic acid
 - Is Vitamin C classified as an acid or a base?
acid
- Examine the properties of the Arrhenius acids in Model 1. List three properties that all Arrhenius acids have in common.
sour, red, conduct electricity
- Examine the chemical formulas for the Arrhenius acids in Model 1. What feature do all the Arrhenius acid chemical formulas have in common?
- Examine the properties of the Arrhenius bases in Model 1. List two properties that all Arrhenius bases have in common.

Introduction To Acids And Bases Answers Pogil

Brian J. Knapp



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POGIL Shawn R. Simonson, 2023-07-03 Process Oriented Guided Inquiry Learning POGIL is a pedagogy that is based on research on how people learn and has been shown to lead to better student outcomes in many contexts and in a variety of academic disciplines Beyond facilitating students mastery of a discipline it promotes vital educational outcomes such as communication skills and critical thinking Its active international community of practitioners provides accessible educational development and support for anyone developing related courses Having started as a process developed by a group of chemistry professors focused on helping their students better grasp the concepts of general chemistry The POGIL Project has grown into a dynamic organization of committed instructors who help each other transform classrooms and improve student success develop curricular materials to assist this process conduct research expanding what is known about learning and teaching and provide professional development and collegiality from elementary teachers to college professors As a pedagogy it has been shown to be effective in a variety of content areas and at different educational levels This is an introduction to the process and the community Every POGIL classroom is different and is a reflection of the uniqueness of the particular context the institution department physical space student body and instructor but follows a common structure in which students work cooperatively in self managed small groups of three or four The group work is focused on activities that are carefully designed and scaffolded to enable students to develop important concepts or to deepen and refine their understanding of those ideas or concepts for themselves based entirely on data provided in class not on prior reading of the textbook or other introduction to the topic The learning environment is structured to support the development of process skills such as teamwork effective communication information processing problem solving and critical thinking The instructor's role is to facilitate the development of student concepts and process skills not to simply deliver content to the students The first part of this book introduces the theoretical and philosophical foundations of POGIL pedagogy and summarizes the literature demonstrating its efficacy The second part of the book focusses on implementing POGIL covering the formation and effective management of student teams offering guidance on the selection and writing of POGIL activities as well as on facilitation teaching large classes and assessment The book concludes with examples of implementation in STEM and non STEM disciplines as well as guidance on how to get started Appendices provide additional resources and information about The POGIL Project

Analytical Chemistry Juliette Lantz, Renée Cole, The POGIL Project, 2014-12-31 An essential guide to inquiry approach instrumental analysis Analytical Chemistry offers an essential guide to inquiry approach instrumental analysis collection The book focuses on more in depth coverage and information about an inquiry approach This authoritative guide reviews the basic principles and techniques Topics covered include method of standard the microscopic view of electrochemistry calculating cell potentials the BerriLambert atomic and molecular absorption processes vibrational modes mass spectra interpretation and much more

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components of the natural world that play key roles in medicine and industry *Hard and Soft Acids and Bases*

Pearson,1973-04-01 **The Petroleum Acids and Bases** Harry Louis Lochte,Edwin Robert Littmann,1955 CONTENTS

PART I THE PETROLEUM ACIDS 1 Introduction 2 Early Investigations 12 3 Availability and Methods of Isolation of Naphthenic Acids 17 4 Distribution and Concentration of Acids III Petroleum 39 5 Purification of Petroleum Acids 45 6 Analytical Methods 51 7 Methods of Separating Petroleum Acids 59 8 Characterization of Petroleum Acids 9 The Structure of Petroleum Acids 93 10 The Hexahydrobenzoic Acid Problem 110 11 Salts and Derivatives of Petroleum Acids 115 12 Phenols 120 13 The Aliphatic or Fatty Acids 136 14 von Braun s Study of the Properties and Reactions of Naphthenic Acids 144 15 von Braun s Study of Roumanian Petroleum Acids 155 16 The Structure of von Braun s Ketone 166 17 Bicyclic Polycyclic and Aromatic Acids 189 18 Recent Studies on Naphthenic Acids 198 Chichibabin s Work on Baku Acids Various Minor Studies on Eurasian Acids Nenitzescu s Studies on Roumanian Acids Work at the University of Texas Gas Well Acids 19 The Origin of Petroleum Acids 236 20 Utilization of Naphthenic Acids 246 PART II THE PETROLEUM BASES 21 Introduction 281 22 Nitrogen in Petroleum 283 Analysis Isolation The Nonbasic Compounds in Petroleum 23 Separation of Basic Compounds 302 24 Early Investigations 316 25 Investigations at the University of Texas 324 26 Cracking Process Bases 342 27 The Origin of Petroleum Nitrogen Compounds 348 28 Uses of Petroleum Bases 356 Index 361 Hard and Soft Acids and Bases Principle in Organic Chemistry

Tse-Lok Ho,2012-12-02 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 HSAB principle Topics covered range from chemical reactivity to displacement reactions along with various HSAB principle applications This text consists of 11 chapters and begins with a historical overview of the HSAB 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 HSAB 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 HSAB 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 HSAB concept

The Lewis Acid-base Concepts William B. Jensen,1980 Acids and Bases Carol Baldwin,2004 **PKa Prediction for Organic Acids and Bases** D. Perrin,Boyd Dempsey,E. P. Serjeant,1981-12-10 Many chemists and biochemists require to know the ionization constants of organic acids and bases This is evident from the Science Citation Index which lists The Determination of Ionization Constants by A Albert and E P Serjeant 1971 as one of the most widely quoted books in the chemical literature Although ultimately there is no satisfactory alternative to experimental measurement it is not always

convenient or practicable to make the necessary measurements and calculations. Moreover, the massive pK compilations currently available provide values for only a small fraction of known or possible acids or bases. For example, the compilations listed in Section 1.3 give pK data for some 6 000–8 000 acids, whereas if the conservative estimate is made that there are one hundred different substituent groups available to substitute in the benzene ring of benzoic acid, approximately five million trisubstituted benzoic acids are theoretically possible. Thus, we have long felt that it is useful to consider methods by which a pK value might be predicted as an interim value to within several tenths of a pH unit using arguments based on linear free energy relationships by analogy, by extrapolation, by interpolation from existing data, or in some other way. This degree of precision may be adequate for many purposes, such as the recording of spectra of pure species as anion, neutral molecule, or cation, for selection of conditions favourable to solvent extraction, and for the interpretation of pH profiles for organic reactions.

Acids, Bases, and Salts Brian J. Knapp, 1998 **Strong Acids and Bases-General Properties**, 2016

You return to the topic of pH and learn about how pH relates to two kinds of compounds, acids and bases. Through an introductory problem, you explore the relationship of various ions within these compounds. 1997, □□□□□□ □□□□ *Acids and Bases* Ray T. Slattery, 1973

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