

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	$\text{H}_2\text{C}_6\text{H}_7\text{O}_7(\text{aq})$	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.

Acids And Bases Pogil Answer

Izaak Maurits Kolthoff, S. Bruckenstein

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Organic Chemistry Suzanne M. Ruder, The POGIL Project, 2015-12-29 ORGANIC CHEMISTRY **Acids and Bases** Kristi Lew, 2009 Learn about acids and bases chemical components of the natural world that play key roles in medicine and industry **Process Oriented Guided Inquiry Learning (POGIL)** Richard Samuel Moog, 2008 POGIL is a student centered group learning pedagogy based on current learning theory This volume describes POGIL's theoretical basis its implementations in diverse environments and evaluation of student outcomes Acid-bases in Analytical Chemistry Izaak Maurits Kolthoff, S. Bruckenstein, 1959 **Acids and Bases** Ronald Percy Bell, R. P. Bell, 1971 Proton Chemistry Robert A. Richardson, 1976 Alberta Authorized Resource for grade 12 ca 1980 1994 **Reactions of Acids and Bases in Analytical Chemistry** Adam Hulanicki, 1987 Acids and Bases Brian G. Cox, 2013-01-31 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 **Acids, Bases, and the Chemistry of the Covalent Bond** Calvin Anthony VanderWerf, 1961 **Acid-Base Equilibria - Quick Chemistry Review Outline and Handout** E Staff, Acid Base Equilibria Quick Review Outline and Handout for All Students Learn and review on the go Use Quick Review Chemistry Notes to help you learn or brush up on the subject quickly You can use the review notes as a reference to understand the subject better and improve your grades Easy to remember facts to help you perform better Perfect study notes for all high school and college students 10 Pages **A New View of Current Acid-base Theories** H. L. Finston, Allen C. Rychtman, 1982 Acid-base Chemistry Clifford W. Hand, Harry Lyon Blewitt, 1986 Very Good No Highlights or Markup all pages are intact **New Solid Acids and Bases** K. Tanabe, M. Misono, H. Hattori, Y. Ono, 1990-02-02 This volume summarises and reviews the enormous progress made over the past two decades in solid acids and bases with emphasis on fundamental aspects and chemical principles In recent years many new kinds of solid acids and bases have been found and synthesized The surface properties in particular acidic and basic properties and the structures of the new solids have been clarified by newly developed measurement methods using modern instruments and techniques The characterized solid acids and bases have been applied as catalysts for diversified reactions many good correlations being obtained between the acid base properties and the catalytic activities or selectivities Recently acid base bifunctional catalysis on solid surfaces is becoming a more and more important and intriguing field of study It has been recognized that the acidic and basic properties of catalysts and catalyst supports play an important role in oxidation reduction hydrogenation hydrocracking etc The effect of the preparation method and the pretreatment conditions of solid acids and bases on the acidic and basic properties the nature of acidic and basic sites and the mechanism regarding the generation of acidity and basicity have been elucidated experimentally and theoretically On the basis of the accumulated knowledge of solid acids and bases it is now possible to design and develop highly active and selective solid acid and base catalysts for particular reactions

The chemistry of solid acids and bases is now being related to and utilized in numerous areas including adsorbents sensors cosmetics fuel cells sensitized pressed papers and others The information presented in this book will therefore be of interest to a wide ranging readership **Physical Chemistry and Acid-Base Properties of Surfaces** Jean-Charles

Joud,Marie-Geneviève Barthés-Labrousse,2015-11-04 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 acid basicity of surfaces with as an illustration different wettability experiments on real materials The next chapter deals with various techniques enabling the measurement of acid basicity of the surfaces including IR and XPS techniques 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 acid 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** Brian J.

Knapp,1998 **Acid-base Equilibria** Edward Jasper King,1956 *Acids and Bases* Chris Oxlade,2007 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 First Year Chemistry Students' Conceptions of Acid/base Chemistry Sally Diane Rupert,2001

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 *Hard and Soft Acids and Bases* Pearson,1973-04-01

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