

# 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	$\text{H}_2\text{C}_6\text{H}_7\text{O}_6(\text{aq})$	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?
  - Is Vitamin C classified as an acid or a base?
- Examine the properties of the Arrhenius acids in Model 1. List three properties that all Arrhenius acids have in common.
- 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.

## 32 Acids And Bases Key

**William H. Brown, Thomas Poon**



### 32 Acids And Bases Key:

**USMLE Step 1 Secrets in Color - E-Book** Theodore X. O'Connell, Ryan A. Pedigo, 2022-03-11 Succinct easy to read engaging and highly effective the highly regarded Secrets Series provides students and practitioners in all areas of health care with focused engaging resources for quick reference and exam review Written by nationally recognized educators Drs Theodore X O Connell and Ryan A Pedigo USMLE Step 1 Secrets in Color 5th Edition offers practical up to date coverage of the full range of topics on this high stakes exam This bestselling resource features the Secrets popular question and answer format that prepares you with the understanding of critical concepts of basic science as applied to the practice of medicine which you ll face on the vignette style USMLE exam Completely revised with up to date information that reflects high yield content on the USMLE Step 1 A case based approach and abundant clinical context help prepare you for the vignette style of the USMLE exam Color images throughout enhance visual review of board relevant images including a wide range of clinical micro and imaging studies Figures tables and summary boxes provide a visual and concise overview of important board relevant content Review board composed of students and residents who performed highly on USMLE Step 1 and have experience with USMLE style question development Portable size makes it easy to carry with you for quick reference or review anywhere anytime

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*The Structure and Composition of Foods* Andrew Lincoln Winton, Kate Grace Barber Winton, 1932

**Core Concepts in Physiology** David R. Bell, 1998 Designed for medical students this volume offers focused coverage of the most important physiological concepts It provides concise explanations of how and why key physiological processes work The content aims to prepare students for course exams boards and medical practice and should be useful for researchers in physiology whose primary training is in molecular biology genetics or biochemistry

**Oxford Smart Activate Chemistry Teacher Handbook (Ebook)** Alyssa Fox-Charles, 2025-06-05 Oxford Smart Activate Chemistry Teacher Handbook Ebook has high aspirations for all budding chemists at KS3 Building on what has been learned at KS2 this handbook helps teachers to plan and deliver lessons that immerse learners in the world of chemistry while developing key knowledge and skills towards GCSE Providing support for all teachers specialists and non subject specialists this handbook contains practical suggestions to reactivate prior knowledge trigger student interest and reflect on learning and progress Links between topics sciences and the wider KS3 curriculum are clearly identified Informed by up to date educational research and tried and tested by Pioneer Schools UK to ensure that the teacher guidance is relevant impactful and promoting current pedagogical practice Oxford Smart Activate is the next evolution of the best selling Activate series from editor and curriculum expert Andrew Chandler Grevatt

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*Index Medicus*, 2003 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings

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**Human Anatomy and Physiology** Gail R. Patt, Donna Van Wynsberghe, Robert Carola, 1994-10 *Human Anatomy and Physiology* Donna Van Wynsberghe, Charles Robert Noback, 1995

Handbook on Injectable Drugs Lawrence A. Trissel, 1980 New edition of a reference that describes 297 parenteral drugs commercially available in the U S plus 25 additional drugs available only in other countries It collects summaries of information from the published literature on the pharmaceuticals of these medications as applied to the clinical setting in order to guide knowledgeable health care professionals particularly pharmacists who are trained to interpret and apply the information The monographs discuss products administration stability compatibility with infusion solutions and other drugs and other relevant auxiliary information Lawrence A Trissel is director of the Clinical Pharmaceutics Research Program at the U of Texas c Book News Inc

**Clinical Surgery** John Herschel Davis, 1987

Chemistry, Student Study Guide John A. Olmsted, Gregory M. Williams, 2002-01-04 This third edition continues to innovate by providing students with an integrated and modern approach to the subject The text emphasizes the modern tools of chemistry while incorporating historical evidence and its unique molecular quantitative emphasis is further reinforced by an integrated media package developed by the authors Also of benefit is the just in time presentation of key content only providing details once they are needed While key topics and analytical techniques have been updated there is now an additional third chapter on chemical equilibrium The authors have also developed an expanded and more integrated problem solving emphasis that now incorporates a 4 step strategy throughout complete with text icons The whole is backed by a range of supplements including a new illustration program a tutorial CD interactive learningware an extensive Web CT component an instructor's resource CD and a solution CD

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Prospectus Sheffield univ, 1886

**General Chemistry** Ralph H. Petrucci, William S. Harwood, 1993 General Chemistry Principles and Modern Applications is recognized for its superior problems lucid writing and precision of argument This updated and expanded edition retains the popular and innovative features of previous editions including Feature Problems follow up Integrative and Practice Exercises to accompany every in chapter Example and Focus On application boxes as well as new Keep in Mind marginal notes Topics covered include atoms

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