

# ACIDS, BASES AND SALTS

<b>Definition of an acid</b> An acid is a compound which when dissolved in water produces hydrogen ions as the only positively charged ions	<b>What causes the acidic properties of acids?</b> The hydrogen ions ( $H^+$ ) cause the acidic properties and these are formed in the presence of water.
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<b>Another term to refer to an acid</b> An acid is called a <u>proton donor</u>	<b>Why an acid is also called a proton donor?</b> It's because an acid provides protons or hydrogen ions ( $H^+$ ) to other substances during the reaction.
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<b>Substance to which an acid provides protons</b> BASE	<b>A base is then called</b> PROTON ACCEPTOR	<b>Why the base is called a proton acceptor?</b> Because the base accepts hydrogen ions from acids	<b>Equation for the reaction between acid and base</b> $H^+_{(aq)} + OH^-_{(aq)} \longrightarrow H_2O_{(l)}$
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Common laboratory acids		These three common laboratory acids are also called	Why these acids are also called mineral acids?
Hydrochloric acid	HCl	MINERAL ACIDS	They are derived from mineral salts i.e chlorides for HCl, sulphates for $H_2SO_4$ and nitrates for $HNO_3$
Sulphuric acid	$H_2SO_4$		
Nitric acid	$HNO_3$		

Other mineral acids known		Mineral salts from which the acid is derived	Organic acids known	Naturally occurring acids
Sulphurous acid	$H_2SO_3$	Derived from sulphites	Ethanoic acid ( $CH_3COOH$ )	CITRIC ACID from lemons
Carbonic acid	$H_2CO_3$	Derived from carbonates		TARTARIC ACID from grapes
Phosphoric acid	$H_3PO_4$	Derived from phosphates	Methanoic acid ( $HCOOH$ )	ACETIC ACID from vinegar
Nitrous acid	$HNO_2$	Derived from nitrites		LACTIC ACID from sour milk
				Hydrochloric acid from digestive juices

<b>Whenever an acid is dissolved in water, it produces</b> HYDROGEN IONS	<b>Term given to the number of hydrogen ions produced by one molecule of an acid</b> BASICITY OF AN ACID	<b>Definition of basicity of an acid</b> BASICITY of an acid is the <u>number of hydrogen ions</u> produced by <u>one molecule</u> of an acid <u>in aqueous solution</u> .
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# Acid And Bases Study Guide

**John McMurry, Susan McMurry**



## Acid And Bases Study Guide:

**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

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**The Practice of Chemistry Study Guide & Solutions Manual** Pamela Mills, Amina El-Ashmawy, 2003-04-14 Designed to help students understand the material better and avoid common mistakes Also includes solutions and explanations to odd numbered exercises

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Holum, 1988-04-20 This Third Edition of the widely used fundamentals textbook for science majors maintains the conversational writing style that made the previous editions so popular while including up to date treatments of important and current topics Emphasizes descriptive chemistry chemical reactions and properties while maintaining a solid treatment of chemical principles Common chemicals are used whenever possible as examples in both theoretical discussions and in problems and exercises Incorporates many pedagogical aids each chapter begins with a brief table of contents and each section begins with a preview of topics covered Chapters include frequent margin comments figures and photographs

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textbook *Fundamentals of Medicinal Chemistry and Drug Metabolism* M. O. Faruk Khan, Ashok Philip, 2018-06-01 The primary objective of this 4 volume book series is to educate PharmD students on the subject of medicinal chemistry The book set serves as a reference guide to pharmacists on aspects of chemical basis of drug action This first volume of the series is comprised of 8 chapters focusing on basic background information about medicinal chemistry It takes a succinct and conceptual approach to introducing important fundamental concepts required for a clear understanding of various facets of pharmacotherapeutic agents drug metabolism and important biosynthetic pathways that are relevant to drug action Notable topics covered in this first volume include the scope and importance of medicinal chemistry in pharmacy education a comprehensive discussion of the organic functional groups present in drugs and information about four major types of biomolecules proteins carbohydrates lipids nucleic acids and key heterocyclic ring systems The concepts of acid base chemistry and salt formation and their applications to the drug action and design follow thereafter These include concepts of solubility and lipid water partition coefficient LWPC isosterism stereochemical properties mechanisms of drug action drug receptor interactions critical for pharmacological responses of drugs and much more Students and teachers will be able to integrate the knowledge presented in the book and apply medicinal chemistry concepts to understand the pharmacodynamics and pharmacokinetics of therapeutic agents in the body

Study Guide and Solutions Manual, Fundamentals of General, Organic, and Biological Chemistry, Third Edition John McMurry, Susan McMurry, 1999 Provides worked out solutions to text problems along with chapter by chapter outlines and a variety of self tests at the end of each chapter

Study Guide for General Chemistry and College Chemistry, Eighth Editions by Holtzclaw and Robinson Norman E. Griswold, Henry Fuller Holtzclaw, 1988

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competitive exams quizzes trivia and more      **Study Guide and Partial Solutions Manual, Fundamentals of General, Organic, and Biological Chemistry** Susan McMurry, 1996 This internationally acclaimed detective series is just the thing for lovers of those Number One Ladies looking for a darker more realistic view of Botswana Sue Baker Publishing News

**Study Guide with Answers to Selected Problems** H. Stephen Stoker, Danny V. White, 2003-04 This supplement includes for each chapter a brief overview activities and practice problems to reinforce skills and a practice test The answers section includes answers for all odd numbered end of chapter exercises

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