

# 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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# Guide Acids Bases And Salts

**William McPherson**



## **Guide Acids Bases And Salts:**

**Basic Concepts of Chemistry, 9e Study Guide and Solutions Manual** Leo J. Malone, Theodore O. Dolter, 2012-01-03  
The 9th edition of Malone's Basic Concepts of Chemistry provides many new and advanced features that continue to address general chemistry topics with an emphasis on outcomes assessment. New and advanced features include an objectives grid at the end of each chapter which ties the objectives to examples within the sections, assessment exercises at the end of each section, and relevant chapter problems at the end of each chapter. A new Math Check allows quick access to the needed basic skill. The first chapter now includes brief introductions to several fundamental chemical concepts, and Chapter Synthesis Problems have been added to the end of each chapter to bring key concepts into one encompassing problem. Every concept in the text is clearly illustrated with one or more step-by-step examples. Making it Real essays have been updated to present timely and engaging real-world applications, emphasizing the relevance of the material they are learning. This edition continues the end-of-chapter Student Workshop activities to cater to the many different learning styles and to engage users in the practical aspect of the material discussed in the chapter. Cambridge IGCSE® Chemistry Practical Teacher's Guide with CD-ROM Michael Strachan, 2016-06-23 This edition of our successful series to support the Cambridge IGCSE Chemistry syllabus 0620 is fully updated for the revised syllabus from first examination from 2016. The Cambridge IGCSE Chemistry Practical Teacher's Guide complements the Practical Workbook, helping teachers to include more practical work in lessons. Specific support is provided for each of the carefully designed investigations to save teachers time. The Teacher's Guide contains advice about planning investigations, guidance about safety considerations, differentiated learning suggestions to support students who might be struggling, and to stretch the students who are most able, as well as answers to all the questions in the Workbook. The Teacher's Guide also includes a CD-ROM containing model data to be used in instances when an investigation cannot be carried out. **Pocket Guide to Fluid, Electrolyte, and Acid-Base Balance - E-Book** Ursula Heitz, Mima M. Horne, 2004-10-20 Compares different types of parenteral and enteral feedings along with nursing implications. Contains expanded and updated relevant IV therapy and pharmacology. Features updated content throughout with current literature and research findings such as most current blood pressure guidelines from the U.S. Department of Health and Human Services. **The Prospector's Field-book and Guide in the Search for and the Easy Determination of Ores and Other Useful Minerals** Henry Stafford Osborn, 1901 **Laboratory Manual for Principles of General Chemistry** J. A. Beran, Mark Lassiter, 2022-08-16 Laboratory Manual for Principles of General Chemistry 11th Edition covers two semesters of a general chemistry laboratory program. The material focuses on the lab experiences that reinforce the concepts that not all experimental conclusions are the same and depend on identifying an appropriate experimental procedure, selecting the proper apparatus, employing the proper techniques, systematically analyzing and interpreting the data, and minimizing inherent variables. As a result of good data, a scientific and analytical conclusion is made.

which may or may not be right but is certainly consistent with the data Experiments write textbooks textbooks don't write experiments A student's scientific literacy grows when experiences and observations associated with the scientific method are encountered Further experimentation provides additional cause effect observations leading to an even better understanding of the experiment The 11th edition's experiments are informative and challenging while offering a solid foundation for technique safety and experimental procedure The reporting and analysis of the data and the pre and post lab questions focus on the intuitiveness of the experiment The experiments may accompany any general chemistry textbook and are compiled at the beginning of each curricular unit An Additional Notes column is included in each experiment's Report Sheet to provide a space for recording observations and data during the experiment Continued emphasis on handling data is supported by the Data Analysis section

*Chemical Principles Study Guide/Solutions Manual* John Krenos, Joseph Potenza, Carl Hoeger, 2007-01-18 Written for general chemistry courses Chemical Principles helps students develop chemical insight by showing the connection between chemical principles and their applications

**Practical/Laboratory Manual**

**Chemistry Class XI based on NCERT guidelines by Dr. S. C. Rastogi & Er. Meera Goyal** Dr. S. C. Rastogi, Er. Meera Goyal, 2020-06-23 An Excellent Book in Accordance with the latest syllabus for Class 11 Prescribed by CBSE NCERT and Adopted by Various State Education Boards

**A Basic Laboratory Techniques**

- 1 To cut a glass tube or glass rod
- 2 To bend the glass rod at an angle
- 3 To draw a glass jet from a glass tube
- 4 To bore a cork and fit a glass tube into it

**B Characterisation and Purification of Chemical Substances**

- 1 To determine the melting point of the given unknown organic compound and its identification simple laboratory technique
- 2 To determine the boiling point of a given liquid when available in small quantity simple laboratory method
- 3 To prepare crystals of pure potash alum  $K_2SO_4 \cdot Al_2(SO_4)_3 \cdot 24H_2O$  from the given impure sample
- 4 To prepare the pure crystals of copper sulphate from the given crude sample
- 5 To prepare pure crystals of benzoic acid from a given impure sample

**C Measurement of pH Values**

- 1 To determine the pH value of vegetable juices fruit juices tap water and washing soda by using universal pH paper
- 2 To determine and compare the pH values of solutions of strong acid HCl and weak acid  $CH_3COOH$  of same concentration
- 3 To study the pH change in the titration of strong base Vs strong acid by using universal indicator paper
- 4 To study the pH change by common ion  $CH_3COO^-$  ion in case of weak acid  $CH_3COOH$
- 5 To determine the change in pH value of weak base  $NH_4OH$  in presence of a common ion  $NH_4^+$

**D Chemical Equilibrium**

- 1 To study the shift in equilibrium between ferric ions and thiocyanate ions by changing the concentrations of either of the ions
- 2 To study the shift in equilibrium between  $Co(H_2O)_6^{2+}$  and  $Cl^-$  ions by changing the concentrations of either of the ions

**E Quantitative Analysis**

- 1 To prepare M/10 oxalic acid solution by direct weighing method
- 2 To prepare M/10 solution of sodium carbonate by direct weighing method
- 3 To determine the strength of given solution of sodium hydroxide by titrating it against N/10 or M/20 solution of oxalic acid
- 4 To determine the strength of a given solution of hydrochloric acid by titrating it against a standard N/10 or M/20 sodium carbonate solution

**F Qualitative Analysis**

- 1 Analysis of Anions
- 2 Analysis of Cations

G Detection of Elements in Organic Compounds 1 To detect the presence of nitrogen sulphur and halogens in a given organic compound by Lassaigne's test 2 To detect the presence of nitrogen sulphur and halogens in the given organic compound sample number by Lassaigne's test INVESTIGATORY PROJECTS A Checking of Bacterial Contamination in Water 1 To check the bacterial contamination in drinking water by testing sulphide ions B Methods of Water Purification 1 To purify water from suspended impurities by using sedimentation 2 To purify water by boiling 3 To purify water by distillation method 4 To purify water by reverse osmosis technique 5 To purify water by GAC method 6 To purify water by bleach treatment 7 To purify water by oxidising agent 8 To purify water by ozone treatment method C Water Analysis 1 To test the hardness of different water samples D Foaming Capacity of Various Soaps 1 To compare the foaming capacity of different washing soaps 2 To study the effect of addition of sodium carbonate on foaming capacity of washing soap E Tea Analysis 1 To study the acidity of different samples of tea leaves tea by using pH paper F Analysis of Fruits and Vegetable Juices 1 To analyse the fruit and vegetable juices for the constituent present in them G Rate of Evaporation 1 To study the rate of evaporation of different liquids H Effect of Acids and Bases on Tensile Strength of Fibres 1 To compare the tensile strength of natural fibres and synthetic fibres 2 To study the effect of acids and bases on tensile strength of different fibres Log Antilog Table

**Laboratory Manual for Principles of General Chemistry** Jo Allan Beran, 2010-11-01 This new edition of the Beran lab manual emphasizes chemical principles as well as techniques The manual helps students understand the timing and situations for the various techniques The Beran lab manual has long been a market leading lab manual for general chemistry Each experiment is presented with concise objectives a comprehensive list of techniques and detailed lab intros and step by step procedures *Laboratory Guide and Class Manual in Qualitative Chemical Analysis* Harry Sands Grindley, 1906

*Manual of Chemistry* William Simon, Daniel Base, 1912 **State Curriculum Guides for Science, Mathematics, and Modern Foreign Languages** Elizabeth Anne Putnam, Ralph Paul Frazier, 1960 *Handbook of Industrial Toxicology and Hazardous Materials* Nicholas P. Cheremisinoff, 1999-01-12 Providing vital safety information on over 1000 commercial chemicals this work explores up to date data on fire and chemical compatibility response methods for incidents involving chemical spills and fires and personnel and worksite safety monitoring and sampling The book includes more than 700 illustrations structures equations and tables and a glossary with over 700 definitions *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 *A Guide to Educational Measurements* Harlan Cameron Hines, 1923 *Laboratory manual* William McPherson, 1913 Groombridge's Guides to the Examinations for the University of London. A Guide to the Matriculation Examination ... With Specimens of Examination Papers Richard Groombridge, 1878 **Class 10 Chemistry Questions and Answers PDF** Arshad Iqbal, The Class 10 Chemistry Quiz Questions and Answers PDF Grade 10 Chemistry Competitive

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**State Manual of the Courses of Study for the High Schools of Oregon ...** Oregon. Office of Superintendent of Public Instruction, 1919      **Selected List of Educational Books for Secondary Schools** Macmillan & Co, 1901

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