

ACIDS, BASES AND SALTS

Definition of an acid An acid is a compound which when dissolved in water produces hydrogen ions as the only positively charged ions	What causes the acidic properties of acids? The hydrogen ions (H^+) cause the acidic properties and these are formed in the presence of water.
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Another term to refer to an acid An acid is called a <u>proton donor</u>	Why an acid is also called a proton donor? It's because an acid provides protons or hydrogen ions (H^+) to other substances during the reaction.
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Substance to which an acid provides protons BASE	A base is then called PROTON ACCEPTOR	Why the base is called a proton acceptor? Because the base accepts hydrogen ions from acids	Equation for the reaction between acid and base $H^+_{(aq)} + OH^-_{(aq)} \longrightarrow H_2O_{(l)}$
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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

Whenever an acid is dissolved in water, it produces HYDROGEN IONS	Term given to the number of hydrogen ions produced by one molecule of an acid BASICITY OF AN ACID	Definition of basicity of an acid 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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Acids Bases And Salts Guide

William McPherson



Acids Bases And Salts Guide:

Laboratory Guide and Class Manual in Qualitative Chemical Analysis Harry Sands Grindley, 1906 *Manual of Chemistry* William Simon, Daniel Base, 1912 Smith's Practical Dyer's Guide David Smith, 1881 A manual of elementary science, by R.A. Gregory and A.T. Simmons sir Richard Arman Gregory (bart.), 1901 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 Laboratory manual William McPherson, 1913 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 **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 *Study Guide and Solutions Manual for Seager/Slabaugh's Chemistry for Today* Seager/Slabaugh, 2004 The fifth edition of the Study Guide and Student Solutions Manual has been updated to reflect all of the changes to the text This ancillary tests the student on the learning objectives in each chapter and provides answers to all of the even numbered end of chapter exercises New additional activities have been added to include a review of each section of the chapter and a section entitled Tying It All Together with a Laboratory Application **A Guide to Educational Measurements** Harlan Cameron Hines, 1923 **Handbook of Acid-Base Indicators** R. W. Sabnis, 2007-10-04 While acid base indicators continue to find new applications in an ever widening range of scientific disciplines there is no current book that focuses entirely on the subject nor one that brings together the relevant advances that have evolved over the last three decades The Handbook of Acid Base Indicators compiles the most up to date c

Laboratory Manual and Study Guide for Integrated Science for Health Students T. Randall Lankford, 1976 **A Guide to Degrees in Arts, Science, Literature, Law, Music, and Divinity** Edwin Wooton, 1883 State Manual of the Courses of Study for the High Schools of Oregon Oregon. Office of Superintendent of Public Instruction, 1922 The Brass World and Platers Guide , 1914 *Study Guide and Solutions Manual for Fundamentals of General, Organic, and Biological Chemistry* Susan McMurry, 1992 **Platers' Guide** , 1915 *Manual of chemistry. A guide to lectures and laboratory work for beginners in chemistry. A text-book specially adapted for students of medicine, pharmacy, and dentistry* William Simon, 1901

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 *ICMEIM 2023* Youbin Chen, Vishalache Balakrishnan, Mehmet Cüneyt Birkök, 2023-11-23 The 4th International Conference on Modern Education and Information Management ICMEIM 2023 was successfully held from September 8th to 10th 2023 in Wuhan China This conference aimed to bring together scholars researchers and practitioners from around the world to discuss and exchange ideas on the latest

trends and advancements in modern education and information management The conference program featured a diverse range of research topics including educational technology digital learning information systems and knowledge management With a focus on exploring innovative approaches and strategies the conference provided a platform for participants to present their research findings and share insights on the future development of the field Distinguished speakers included Prof Qing Ding from Huazhong University of Science and Technology China Prof Longkai Wu from Central China Normal University China Assoc Prof Lim Chee Leong from Taylor s University Malaysia and Assoc Prof Teh Sin Yin from Universiti Sains Malaysia Malaysia These experts delivered keynote speeches offering valuable perspectives and stimulating discussions on the conference themes The 4th International Conference on Modern Education and Information Management ICMEIM 2023 played a significant role in shaping the future development of the field It provided a platform for researchers and practitioners to share their knowledge explore emerging trends and address key challenges in modern education and information management By facilitating collaboration and promoting interdisciplinary dialogue the conference contributed to the advancement of innovative practices and strategies in this rapidly evolving field We extend our sincere appreciation to all participants presenters organizers and sponsors for their valuable contributions in making the ICMEIM a success We look forward to future editions of the conference and the continued growth and advancement of the field

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