

ChemActivity 40

Part A: Reactions of Carboxylic Acids

(How does the acidic O-H group affect nucleophilic addition to the carbonyl carbon?)

Model 1: Acid-Base Reactivity of Carboxylic Acids



Critical Thinking Questions

- How many different kinds of hydrogens are there on acetic acid?
 - Draw both possible conjugate bases **INCLUDING ANY IMPORTANT RESONANCE STRUCTURES**.
 - Circle the conjugate base that is lower in potential energy and explain your reasoning.
- Methoxide ion (CH_3O^-) is an excellent nucleophile, yet the following nucleophilic addition does not occur.



- Which is higher in energy: the **nucleophilic addition product above** or the **conjugate base of acetic acid**? [Cross out the one that is higher in energy.]
- Is your answer in part a) consistent with the fact that with methoxide the acid base reaction is favored over the nucleophilic addition reaction? Explain.

Chemactivity 40 Answers

Michael P. Garoutte



Chemactivity 40 Answers

Organic Chemistry, a Guided Inquiry Andrei Straumanis,2004 **Chemistry 2e** Paul Flowers,Richard Langel,William R. Robinson,Klaus Hellmut Theopold,2019-02-14 Chemistry 2e is designed to meet the scope and sequence requirements of the two semester general chemistry course The textbook provides an important opportunity for students to learn the core concepts of chemistry and understand how those concepts apply to their lives and the world around them The book also includes a number of innovative features including interactive exercises and real world applications designed to enhance student learning The second edition has been revised to incorporate clearer more current and more dynamic explanations while maintaining the same organization as the first edition Substantial improvements have been made in the figures illustrations and example exercises that support the text narrative Changes made in Chemistry 2e are described in the preface to help instructors transition to the second edition **Chemistry** Richard S. Moog,John J. Farrell,2017-06-26 In the newly updated 7th Edition Chemistry A Guided Inquiry continues to follow the underlying principles developed by years of extensive research on how students learn and draws on testing by those using the POGIL methodology This text follows the principles of inquiry based learning and correspondingly emphasizes underlying chemistry concepts and the reasoning behind them This text provides an approach that follows modern cognitive learning principles by having students learn how to create knowledge based on experimental data and how to test that knowledge Pearson Chemistry Antony C. Wilbraham,Dennis D. Staley,Michael S. Matta,Edward L. Waterman,2012-01-01 **Holt McDougal Modern Chemistry** Mickey Sarquis,2012 **Chemistry** Steven S. Zumdahl,Susan A. Zumdahl,2007 Contains discussion illustrations and exercises aimed at overcoming common misconceptions emphasizes on models prevails and covers topics such as chemical foundations types of chemical reactions and solution stoichiometry electrochemistry and organic and biological molecules

Organic Chemistry David R. Klein,2017-08-14 In *Organic Chemistry* 3rd Edition Dr David Klein builds on the phenomenal success of the first two editions which presented his unique skills based approach to learning organic chemistry Dr Klein s skills based approach includes all of the concepts typically covered in an organic chemistry textbook and places special emphasis on skills development to support these concepts This emphasis on skills development in unique SkillBuilder examples provides extensive opportunities for two semester Organic Chemistry students to develop proficiency in the key skills necessary to succeed in organic chemistry Activity Coefficients in Electrolyte Solutions Kenneth S. Pitzer,2018-05-04 This book was first published in 1991 It considers the concepts and theories relating to mostly aqueous systems of activity coefficients *General, Organic, and Biological Chemistry* Michael P. Garoutte,2014-02-24 Classroom activities to support a General Organic and Biological Chemistry text Students can follow a guided inquiry approach as they learn chemistry in the classroom *General Organic and Biological Chemistry A Guided Inquiry* serves as an accompaniment to

a GOB Chemistry text It can suit the one or two semester course This supplemental text supports Process Oriented Guided Inquiry Learning POGIL which is a student focused group learning philosophy of instruction The materials offer ways to promote a student centered science classroom with activities The goal is for students to gain a greater understanding of chemistry through exploration

AP Chemistry For Dummies Peter J. Mikulecky,Michelle Rose Gilman,Kate Brutlag,2008-11-13 A practical and hands on guide for learning the practical science of AP chemistry and preparing for the AP chem exam Gearing up for the AP Chemistry exam AP Chemistry For Dummies is packed with all the resources and help you need to do your very best Focused on the chemistry concepts and problems the College Board wants you to know this AP Chemistry study guide gives you winning test taking tips multiple choice strategies and topic guidelines as well as great advice on optimizing your study time and hitting the top of your game on test day This user friendly guide helps you prepare without perspiration by developing a pre test plan organizing your study time and getting the most out of your AP course You ll get help understanding atomic structure and bonding grasping atomic geometry understanding how colliding particles produce states and so much more To provide students with hands on experience AP chemistry courses include extensive labwork as part of the standard curriculum This is why the book dedicates a chapter to providing a brief review of common laboratory equipment and techniques and another to a complete survey of recommended AP chemistry experiments Two full length practice exams help you build your confidence get comfortable with test formats identify your strengths and weaknesses and focus your studies You ll discover how to Create and follow a pretest plan Understand everything you must know about the exam Develop a multiple choice strategy Figure out displacement combustion and acid base reactions Get familiar with stoichiometry Describe patterns and predict properties Get a handle on organic chemistry nomenclature Know your way around laboratory concepts tasks equipment and safety Analyze laboratory data Use practice exams to maximize your score Additionally you ll have a chance to brush up on the math skills that will help you on the exam learn the critical types of chemistry problems and become familiar with the annoying exceptions to chemistry rules Get your own copy of AP Chemistry For Dummies to build your confidence and test taking know how so you can ace that exam

Green Toxicology Alexandra Maertens,2022-02-01 Green toxicology is an integral part of green chemistry One of the key goals of green chemistry is to design less toxic chemicals Therefore an understanding of toxicology and hazard assessment is important for any chemist working in green chemistry but toxicology is rarely part of most chemists education As a consequence chemists lack the toxicological lens necessary to view chemicals in order to design safer substitutions This book seeks to fill that gap and demonstrate how a basic understanding of toxicology as well as the tools of in silico and in vitro toxicology can be an integral part of green chemistry R D chemists product stewards and toxicologists who work in the field of sustainability can all benefit from integrating green toxicology principles into their work Topics include in silico tools for hazard assessment toxicity testing and lifecycle considerations this book aims to act as a bridge between green toxicologists and green chemists

Plasma Catalysis Annemie Bogaerts, 2019-04-02 Plasma catalysis is gaining increasing interest for various gas conversion applications such as CO₂ conversion into value added chemicals and fuels N₂ fixation for the synthesis of NH₃ or NO_x methane conversion into higher hydrocarbons or oxygenates It is also widely used for air pollution control e.g. VOC remediation Plasma catalysis allows thermodynamically difficult reactions to proceed at ambient pressure and temperature due to activation of the gas molecules by energetic electrons created in the plasma However plasma is very reactive but not selective and thus a catalyst is needed to improve the selectivity In spite of the growing interest in plasma catalysis the underlying mechanisms of the possible synergy between plasma and catalyst are not yet fully understood Indeed plasma catalysis is quite complicated as the plasma will affect the catalyst and vice versa Moreover due to the reactive plasma environment the most suitable catalysts will probably be different from thermal catalysts More research is needed to better understand the plasma catalyst interactions in order to further improve the applications *Nonstoichiometric Oxides* O.T. Soerensen, 2012-12-02 *Nonstoichiometric Oxides* discusses the thermodynamic and structural studies of nonstoichiometric oxides This eight chapter text also covers the defect defect interactions in these compounds The introductory chapters describe the thermodynamic properties of nonstoichiometric oxides in terms of defect complexes using the classical thermodynamic principles and from a statistical thermodynamics point of view These chapters also include statistical thermodynamic models that indicate the ordered nonstoichiometric phase range in these oxides The subsequent chapters examine the transport properties such as diffusion and electrical conductivity Diffusion theories and experimental diffusion coefficients for several systems as well as the electrical properties of the highly defective ionic and mixed oxide conductor are specifically tackled in these chapters The concluding chapters present the pertinent results obtained in nonstoichiometric oxide structural studies using high resolution electron microscopy and X ray and neutron diffraction Inorganic chemists and inorganic chemistry teachers and students will greatly appreciate this book *Organic Chemistry*, 1902 **Biology for AP** © **Courses** Julianne Zedalis, John Eggebrecht, 2017-10-16 *Biology for AP courses* covers the scope and sequence requirements of a typical two semester Advanced Placement biology course The text provides comprehensive coverage of foundational research and core biology concepts through an evolutionary lens *Biology for AP Courses* was designed to meet and exceed the requirements of the College Board's AP Biology framework while allowing significant flexibility for instructors Each section of the book includes an introduction based on the AP curriculum and includes rich features that engage students in scientific practice and AP test preparation it also highlights careers and research opportunities in biological sciences **Surface Organometallic Chemistry: Molecular Approaches to Surface Catalysis** Jean-Marie Basset, Bruce C. Gates, Jean-Pierre Candy, Agnès Choplin, Michel Leconte, Françoise Quignard, Cathérine Santini, 2012-12-06 *Surface organometallic chemistry* is a new field bringing together researchers from organometallic inorganic and surface chemistry and catalysis Topics ranging from reaction mechanisms to catalyst preparation are considered from a molecular basis

according to which the active site on a catalyst surface has a supra molecular character This the first book on the subject is the outcome of a NATO Workshop held in Le Rouret France in May 1986 It is our hope that the following chapters and the concluding summary of recommendations for research may help to provide a definition of surface organometallic chemistry Besides catalysis the central theme of the Workshop four main topics are considered 1 Reactions of organometallics with surfaces of metal oxides metals and zeolites 2 Molecular models of surfaces metal oxides and metals 3 Molecular approaches to the mechanisms of surface reactions 4 Synthesis and modification of zeolites and related microporous solids Most surface organometallic chemistry has been carried out on amorphous high surface area metal oxides such as silica alumina magnesia and titania The first chapter contributed by KNOZINGER gives a short summary of the structure and reactivity of metal oxide surfaces Most of our understanding of these surfaces is based on acid base and redox chemistry this chemistry has developed from X ray and spectroscopic data and much has been inferred from the structures and reactivities of adsorbed organic probe molecules There are major opportunities for extending this understanding by use of well defined single crystal oxide surfaces and organometallic probe molecules

Merrill Chemistry Robert C. Smoot, Smoot, Richard G. Smith, Jack Price, 1998

General Chemistry Ralph H. Petrucci, F. Geoffrey Herring, Jeffrey D. Madura, Carey Bissonnette, 2010-05

Specific Ion Effects Werner Kunz, 2010 Specific ion effects are important in numerous fields of science and technology This book summarizes the main ideas that came up over the years It presents the efforts of theoreticians and supports it by the experimental results stemming from various techniques

Basic Principles of Organic Chemistry John D. Roberts, Marjorie C. Caserio, 1977 Introduction what is organic chemistry all about Structural organic chemistry the shapes of molecules functional groups Organic nomenclature Alkanes Stereoisomerism of organic molecules Bonding in organic molecules atomic orbital models More on nomenclature compounds other than hydrocarbons Nucleophilic substitution and elimination reactions Separation and purification identification of organic compounds by spectroscopic techniques Alkenes and alkynes Ionic and radical addition reactions Alkenes and alkynes Oxidation and reduction reactions Acidity or alkynes

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