

ESTERS


An Introduction to Organic Chemistry Reactions

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In contrast to inorganic reactions, which usually involve metals combining with non-metals or polyatomic ions, organic reactions occur as additions or substitutions into a compound or as a condensation-type reaction where removal of certain atoms or groups cause two molecules to combine. One type of reaction, that will be observed in this experiment, is a dehydration between an organic acid and an alcohol to produce an ester.

An organic acid has a structure:



This compound, which contains two carbon atoms with a  group (called a carboxyl group) on one end of the molecule is ethanoic acid, commonly called acetic acid or vinegar (a 5% solution of acetic acid).

An organic alcohol has a structure:



This compound, which contains two carbon atoms with a $-\text{C}-\text{OH}$ structure on one end of the molecule is ethanol, commonly called ethyl alcohol.

When an organic acid is mixed with an alcohol in the presence of a strong, dehydrating acid, such as sulfuric acid, H_2SO_4 , the molecules are joined together to form an ester with the removal of a water molecule:



The ester in the reaction, above, is called ethylethanoate, or commonly, ethyl acetate.

To obtain the pure ester, one would have to distill it from the mixture of products obtained in the reaction.

Esters occur in many plants and are, in part, responsible for the distinctive odors of those plants and the flavors of their fruits.

Esters An Introduction To Organic Chemistry Reactions

Victor von Richter



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Introduction to Organic Chemistry William Henry Brown, 1988 Covering the groundwork of organic chemistry a dynamic and expanding area of science the second edition of this introductory text shows the interrelation between organic chemistry and the biological and health sciences clearly and concisely making it easy to understand by students in a one semester organic course Every copy of Brown Second Edition includes ChemOffice Web CD ROM

Pharmaceutical Organic Chemistry -E-Book S.K. Bhasin, Reena Gupta, 2012-04-01 Pharmaceutical Organic Chemistry has been written keeping in mind the severe need for a comprehensive text to meet the curriculum needs of the undergraduate pharmacy students It not only provides all the curriculum topics to the students but also contains all the vital reactions mechanisms that the students look for in an organic chemistry book Entire subject matter has been written in a systematic and lucid style in simple language All the basic concepts and fundamentals of organic chemistry have been explained with well chosen examples For better understanding of the subject matter important points have been highlighted in the form of the textboxes titled as Remember Learning Plus and Noteworthy Points wherever required Summary of the topics in the form of Memory Focus has been given at relevant places to help the students to revise the subject matter quickly Stepwise mechanism of the reactions as per the syllabus has been illustrated laying emphasis on the reactive intermediates involved At the end of each chapter Revision Questions including descriptive questions and short answer questions have been given for the students to practice Multiple Choice Questions with answers have been included at the end of each chapter

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background tools and models required to understand organic synthesis and plan chemical reactions more efficiently Knowledge of physical chemistry is essential for achieving successful chemical reactions in organic chemistry Chemists must be competent in a range of areas to understand organic synthesis Organic Chemistry provides the methods models and tools necessary to fully comprehend organic reactions Written by two internationally recognized experts in the field this much needed textbook fills a gap in current literature on physical organic chemistry Rigorous yet straightforward chapters first examine chemical equilibria thermodynamics reaction rates and mechanisms and molecular orbital theory providing readers with a strong foundation in physical organic chemistry Subsequent chapters demonstrate various reactions involving organic organometallic and biochemical reactants and catalysts Throughout the text numerous questions and exercises over 800 in total help readers strengthen their comprehension of the subject and highlight key points of learning The companion Organic Chemistry Workbook contains complete references and answers to every question in this text A much needed resource for students and working chemists alike this text Presents models that establish if a reaction is possible estimate how long it will

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