

## Esterification investigation Design Practical

### Introduction:

Esterification is a chemical reaction in which two reactants (usually an alcohol and an acid) combine to generate an ester as the reaction product. Equilibrium occurs when both reactants and products are present in concentrations that have no further tendency to change with time, resulting in no apparent change in the system's properties. This state occurs when the reaction proceeds at the same rate as the reverse reaction which results in the system reaching equilibrium.  $\text{RCOOR'}$  is the general structure of an ester. The ester will be created in this lab by combining a carboxylic acid with an alcohol, resulting in the ester and  $\text{H}_2\text{O}$ . An acid catalyst is required for this reaction.

### Hypothesis:

The alcohol is going to be the limiting reactant while the acid is going to be the excess reactant. This implies that the ester would not pass the limiting reactant.

### Safety Measures:

Different safety techniques were considered during the practical to guarantee the safety of fellow classmates.

- Lab coats must be worn at all time
- Safety glasses were worn at all time especially when dealing with any acid or bases to minimize risk.
- Special care was taken when transporting and handling sulfuric acid due to the corrosiveness to the eyes and skin.
- Due to acids and alcohols being flammable, they were not directly heated with a burner but instead a heating mantle.

### Apparatus:

Conical flask

Conical flask - 250ml/500ml

Conical flask - 100ml

Beaker

Reflux apparatus - 3-necked round-bottom flask

- 100ml/250ml/500ml
- 100ml/250ml/500ml

# Esterification Practical Investigation

**Mark Crocker, Eduardo Santillan-  
Jimenez**



## **Esterification Practical Investigation:**

Chemistry in Context - Laboratory Manual Graham Hill, John Stranger Holman, John Holman, 2001 The laboratory manual and study guide supports your teaching with a broad range of practicals emphasising safety and risk assessment It is an essential companion to Chemistry in Context and can also be used alongside other Advanced Chemistry books It offers practicals with detailed instructions for open-ended investigations and opportunities for assessed practical work in the four skill areas of planning implementing analysing and evaluating *Chemistry Expression - An Inquiry Approach for 'O' Level Science (Chemistry) Practical Workbook*, 2006 **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 **Experiment Station Record**, 1912 *Chemistry Expression - An Inquiry Approach for 'O' Level Express Practical Workbook* Oon Hock Leong, 2006 **Experiment Station Record** U.S. Office of Experiment Stations, United States. Agricultural Research Service, United States. Office of Experiment Stations, 1947

Reports of the Committee and of the Director, Indian Lac Research Institute, Nankum, Ranchi Indian Lac Research Institute, 1943 **Reports of the Committee and of the Director, Indian Lac Research Institute** Indian Lac Research Institute, 1940 Chemistry in Context Graham Hill, John Holman, 2000 This completely revised version matches the latest specifications for Advanced Subsidiary AS and Advanced GCE Chemistry The new full colour design enhances a modern relevant course text and the informative diagrams and photographs highlight the importance of chemistry in the 21st century In each chapter there are in-text and review questions which help the student remain focused and increase their understanding This coupled with the large bank of examination questions at the end of the book provides students with further opportunity for self study and revision **Chemical Catalysts for Biomass Upgrading** Mark Crocker, Eduardo Santillan-Jimenez, 2020-03-09 A comprehensive reference to the use of innovative catalysts and processes to turn biomass into value added chemicals Chemical Catalysts for Biomass Upgrading offers detailed descriptions of catalysts and catalytic processes employed in the synthesis of chemicals and fuels from the most abundant and important biomass types The contributors noted experts on the topic focus on the application of catalysts to the pyrolysis of whole biomass and to the upgrading of bio oils The authors discuss catalytic approaches to the processing of biomass derived oxygenates as

exemplified by sugars via reactions such as reforming hydrogenation oxidation and condensation reactions Additionally the book provides an overview of catalysts for lignin valorization via oxidative and reductive methods and considers the conversion of fats and oils to fuels and terminal olefins by means of esterification transesterification hydrodeoxygenation and decarboxylation decarbonylation processes The authors also provide an overview of conversion processes based on terpenes and chitin two emerging feedstocks with a rich chemistry and summarize some of the emerging trends in the field This important book Provides a comprehensive review of innovative catalysts catalytic processes and catalyst design Offers a guide to one of the most promising ways to find useful alternatives for fossil fuel resources Includes information on the most abundant and important types of biomass feedstocks Examines fields such as catalytic cracking pyrolysis depolymerization and many more Written for catalytic chemists process engineers environmental chemists bioengineers organic chemists and polymer chemists Chemical Catalysts for Biomass Upgrading presents deep insights on the most important aspects of biomass upgrading and their various types **Industrial & Engineering Chemistry**, 1928 Practical Instrumental Analysis Sergio Petrozzi, 2012-09-24 This practical book in instrumental analytics conveys an overview of important methods of analysis and enables the reader to realistically learn the principally technology independent working techniques the analytical chemist uses to develop methods and conduct validation What is to be conveyed to the student is the fact that analysts in their capacity as problem solvers perform services for certain groups of customers i e the solution to the problem should in any case be processed in such a way as to be fit for purpose The book presents sixteen experiments in analytical chemistry laboratory courses They consist of the classical curriculum used at universities and universities of applied sciences with chromatographic procedures atom spectrometric methods sensors and special methods e g field flow fractionation flow injection analysis and N determination according to Kjeldahl The carefully chosen combination of theoretical description of the methods of analysis and the detailed instructions given are what characterizes this book The instructions to the experiments are so detailed that the measurements can for the most part be taken without the help of additional literature The book is complemented with tips for effective literature and database research on the topics of organization and the practical workflow of experiments in analytical laboratory on the topic of the use of laboratory logs as well as on writing technical reports and grading them Evaluation Guidelines for Laboratory Experiments A small introduction to Quality Management a brief glance at the history of analytical chemistry as well as a detailed appendix on the topic of safety in analytical laboratories and a short introduction to the new system of grading and marking chemicals using the Globally Harmonized System of Classification and Labelling of Chemicals GHS round off this book This book is therefore an indispensable workbook for students internship assistants and lecturers in the area of chemistry biotechnology food technology and environmental technology in the basic training program of analytics at universities and universities of applied sciences *Advances in Biofeedstocks and Biofuels, Liquid Biofuel Production* Lalit Kumar Singh, Gaurav

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