

GRADE 12 PRESCRIBED EXPERIMENT 1: PREPARATION OF ESTERS

NAME OF LEARNER :

DATE :

SCHOOL :

TOTAL MARKS :50

1. Title

Preparation and identification of Esters

2. Aim of the experiment

- * To synthesize/prepare esters, methylbutanoate and ethylbutanoate.
- * To write the chemical equations for the formation of methylbutanoate and ethylbutanoate using structural formulas.

3. Materials/Apparatus

Equipment/ Glasswares

2 test tubes

Water soluble marker

Test tube rack

Eye dropper

2 x 250 ml beakers

Hot plate

10 ml graduated cylinder

Thermometer

Lab apron & Safety goggles

Water bath

Chemical / Reagents

Methanol

Ethanol

Concentrated sulphuric acid

Butanoic acid

4. Safety Precautions

- **Concentrated sulphuric acid** is a strong oxidizing agent and highly corrosive. It is dangerous and can burn skin, eyes, and clothing very badly. Avoid contact with skin or clothes. Wear gloves and proper eye protection when using this substance. Use only in a fume hood. Use exactly as directed. If it is spilled, wash immediately before the acid has a chance to cause a burn, and inform the instructor.
- **Butanoic acid** (all organic liquid acids) is toxic and corrosive to skin, eyes, and clothing. While working on this experiment, wear safety goggles, full face shield, gloves, and lab apron. Wash spills and splashes off your skin and clothing immediately, using plenty of water.
- All burners and other flames in the laboratory must be extinguished before you start this experiment.
 - **Methanol** is highly flammable. It is poisonous if swallowed. Its vapour is harmful to the eyes, lungs and skin and other organs.
 - **Ethanol** is flammable, poisonous and its toxic.
- **Detect odours of these esters with caution because vapors produced may be harmful.** Breathing the vapours of some of these esters can cause sore throat, dizziness, headache, and drowsiness. Hold the test tube 30 cm away and 15 cm below your nose. Waft a small amount of vapor or odour from the ester toward your nose, sniffing cautiously, once or twice. Do not breathe deeply while sniffing.
- Before leaving the laboratory, wash your hands thoroughly with soap and water.

Grade 12 Ester Experiment Memorandum And Question Paper

I. Hamerton



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Physical Sciences, Grade 12 Karin H. Kelder, Derick Govender, Jagathesan Govender, 2013-07-03 Study Master Physical Sciences Grade 12 has been especially developed by an experienced author team for the Curriculum and Assessment Policy Statement CAPS This new and easy to use course helps learners to master essential content and skills in Physical Sciences

Advances in Fingerprint Technology Ashim K. Datta, 2001-06-15 Fingerprints constitute one of the most important categories of physical evidence and it is among the few that can be truly individualized During the last two decades many new and exciting developments have taken place in the field of fingerprint science particularly in the realm of methods for developing latent prints and in the growth of imag

Practical Organic Chemistry Frederick George Mann, Bernard Charles Saunders, 1975 A Clear And Reliable Guide To Students Of Practical Organic Chemistry At The Undergraduate And Postgraduate Levels This Edition S Special Emphasis Is On Semi Micro Methods And Modern Techniques And Reactions

Crime Scene Investigation National Institute of Justice (U.S.). Technical Working Group on Crime Scene Investigation, 2000 This is a guide to recommended practices for crime scene investigation The guide is presented in five major sections with sub sections as noted 1 Arriving at the Scene Initial Response Prioritization of Efforts receipt of information safety procedures emergency care secure and control persons at the scene boundaries turn over control of the scene and brief investigator s in charge document actions and observations 2 Preliminary Documentation and Evaluation of the Scene scene assessment walk through and initial documentation 3 Processing the Scene team composition contamination control documentation and prioritize collect preserve inventory package transport and submit evidence 4 Completing and Recording the Crime Scene Investigation establish debriefing team perform final survey document the scene and 5 Crime Scene Equipment initial responding officers investigator evidence technician evidence collection kits

A Century of Innovation 3M Company, 2002 A compilation of 3M voices memories facts and experiences from the company s first 100 years

Physical Science Experiments Aviva Ebner, 2011 Explores the physical sciences through experiments in infrared radiation heat and energy

Experimental Political Science and the Study of Causality Rebecca B. Morton, Kenneth C. Williams, 2010-08-06 Increasingly political scientists use the term experiment or experimental to describe their empirical research One of the primary reasons for doing so is the advantage of experiments in establishing causal inferences In this book Rebecca B Morton and Kenneth C Williams discuss in detail how experiments and experimental reasoning with observational data can help researchers determine causality They explore how control and random assignment mechanisms work examining both the Rubin causal model and the formal theory approaches to causality They also cover general topics in experimentation such as the history of experimentation in political science internal and external validity of experimental research types of experiments field laboratory virtual and survey and how to choose recruit and motivate subjects in

experiments They investigate ethical issues in experimentation the process of securing approval from institutional review boards for human subject research and the use of deception in experimentation In the Matter of Josef Mengele Neal M. Sher,1992

Good Economics for Hard Times Abhijit V. Banerjee, Esther Duflo, 2019-11-12 The winners of the Nobel Prize show how economics when done right can help us solve the thorniest social and political problems of our day Figuring out how to deal with today's critical economic problems is perhaps the great challenge of our time Much greater than space travel or perhaps even the next revolutionary medical breakthrough what is at stake is the whole idea of the good life as we have known it Immigration and inequality globalization and technological disruption slowing growth and accelerating climate change these are sources of great anxiety across the world from New Delhi and Dakar to Paris and Washington DC The resources to address these challenges are there what we lack are ideas that will help us jump the wall of disagreement and distrust that divides us If we succeed history will remember our era with gratitude if we fail the potential losses are incalculable In this revolutionary book renowned MIT economists Abhijit V Banerjee and Esther Duflo take on this challenge building on cutting edge research in economics explained with lucidity and grace Original provocative and urgent Good Economics for Hard Times makes a persuasive case for an intelligent interventionism and a society built on compassion and respect It is an extraordinary achievement one that shines a light to help us appreciate and understand our precariously balanced world

How Tobacco Smoke Causes Disease United States. Public Health Service. Office of the Surgeon General, 2010 This report considers the biological and behavioral mechanisms that may underlie the pathogenicity of tobacco smoke Many Surgeon General's reports have considered research findings on mechanisms in assessing the biological plausibility of associations observed in epidemiologic studies Mechanisms of disease are important because they may provide plausibility which is one of the guideline criteria for assessing evidence on causation This report specifically reviews the evidence on the potential mechanisms by which smoking causes diseases and considers whether a mechanism is likely to be operative in the production of human disease by tobacco smoke This evidence is relevant to understanding how smoking causes disease to identifying those who may be particularly susceptible and to assessing the potential risks of tobacco products

Physical Science National Learning Corporation, 2018 The DSST Physical Science Passbook R prepares candidates for the DSST exam which enables schools to award credit for knowledge acquired outside the normal classroom environment It provides a series of informational texts as well as hundreds of questions and answers in the areas that will likely be covered on your upcoming exam including but not limited to physics electricity and magnetism Glossyr chemical reactions atomic structure and more

Chemistry and Technology of Cyanate Ester Resins I. Hamerton, 2012-12-06 After epoxy resins and polyimides cyanate esters arguably form the most well developed group of high temperature thermosetting polymers They possess a number of desirable performance characteristics which make them of increasing technological importance where their somewhat higher costs are acceptable The principal end uses for cyanate esters are as

matrix resins for printed wiring board laminates and structural composites For the electronics markets the low dielectric loss characteristics dimensional stability at molten solder temperatures and excellent adhesion to conductor metals at temperatures up to 250 C are desirable In their use in aerospace composites unmodified cyanate esters offer twice the fracture toughness of multifunctional epoxies while achieving a service temperature intermediate between epoxy and bis maleimide capabilities Applications in radome construction and aircraft with reduced radar signatures utilize the unusually low capacitance properties of cyanate esters and associated low dissipation factors While a number of commercial cyanate ester monomers and prepoly mers are now available to date there has been no comprehensive review of the chemistry and recent technological applications of this versatile family of resins The aims of the present text are to present these in a compact readable form The work is primarily aimed at materials scientists and polymer technologists involved in research and development in the chemical electronics aerospace and adhesives industries It is hoped that advanced undergraduates and postgraduates in polymer chemistry and technology and materials science technology will find it a useful introduction and source of reference in the course of their studies

The Fingerprint U. S. Department Justice, 2014-08-02 The idea of The Fingerprint Sourcebook originated during a meeting in April 2002 Individuals representing the fingerprint academic and scientific communities met in Chicago Illinois for a day and a half to discuss the state of fingerprint identification with a view toward the challenges raised by Daubert issues The meeting was a joint project between the International Association for Identification IAI and West Virginia University WVU One recommendation that came out of that meeting was a suggestion to create a sourcebook for friction ridge examiners that is a single source of researched information regarding the subject This sourcebook would provide educational training and research information for the international scientific community

Toxicological Profile for Polycyclic Aromatic Hydrocarbons, 1995 EPA 745-B., 2000 **Possible Long-term Health Effects of Short-term Exposure to Chemical Agents**, 1982 *The Mechanisms of Pyrolysis, Oxidation, and Burning of Organic Materials* Leo Aloysius Wall, 1972 Writing Exercises from Exercise Exchange Charles R. Duke, 1984 Reflecting current practices in the teaching of writing the exercises in this compilation were drawn from the journal Exercise Exchange The articles are arranged into six sections sources for writing prewriting modes for writing writing and reading language mechanics and style and revising responding and evaluating Among the topics covered in the more than 75 exercises are the following 1 using the Tarot in the composition class 2 writing for a real audience 3 writing and career development 4 teaching the thesis statement through description 5 sense exploration and descriptive writing 6 composition and adult students 7 free writing 8 in class essays 9 moving from prewriting into composing 10 writing as thinking 11 values clarification through writing 12 persuasive writing 13 the relationship of subject writer and audience 14 business writing 15 teaching the research paper 16 writing in the content areas 17 writing from literature 18 responding to literature via inquiry 19 precision in language usage 20 grammar instruction 21 topic sentences 22 generating paragraphs 23 writing style 24 peer

evaluation and 25 writing course final examinations FL **Giant Molecules** A. I?U. Grosberg,A. R. Khokhlov,Pierre-Gilles de Gennes,2011 Giant molecules are important in our everyday life But as pointed out by the authors they are also associated with a culture What Bach did with the harpsichord Kuhn and Flory did with polymers We owe a lot of thanks to those who now make this music accessible Pierre Gilles de GennesNobel Prize laureate in Physics Foreword for the 1st Edition March 1996 This book describes the basic facts concepts and ideas of polymer physics in simple yet scientifically accurate terms In both scientific and historic contexts the book shows how the subject of polymers is fascinating as it is behind most of the wonders of living cell machinery as well as most of the newly developed materials No mathematics is used in the book beyond modest high school algebra and a bit of freshman calculus yet very sophisticated concepts are introduced and explained ranging from scaling and reptations to protein folding and evolution The new edition includes an extended section on polymer preparation methods discusses knots formed by molecular filaments and presents new and updated materials on such contemporary topics as single molecule experiments with DNA or polymer properties of proteins and their roles in biological evolution **Nuclear Science Abstracts** ,1972

USER MANUAL - SRV02 Rotary Servo Base Unit The Quanser SRV02 rotary servo plant, pictured in Figure 1.1, consists of a DC motor that is encased in a solid aluminum frame and equipped with a planetary ... SRV02 Position Control using QuaRC This laboratory guide contains pre-lab and in-lab exercises demonstrating how to design and implement a position controller on the Quanser SRV02 rotary ... Quanser SRV02 Workbook Jan 1, 2019 — Hakan Gurocak, Washington State University Vancouver, USA, for rewriting this manual to include embedded outcomes assessment. SRV02 Workbook - ... SRV02 User Manual SRV02 User Manual. 1. Presentation. 1.1. Description. The Quanser SRV02 rotary servo plant, pictured in Figure 1, consists of a DC motor that is encased in a. Quanser SRV02 Workbook Jan 1, 2019 — SRV02 Manual (Student).pdf. This laboratory guide contains pre-lab questions and lab experiments demonstrating how to model the Quanser. SRV02 ... SRV02 User Manual This module is designed to mount to a Quanser rotary servo plant (SRV02). The sensor shaft is aligned with the motor shaft. One end of a rigid link is mounted ... SRV02_Rotary Pendulum_User Manual.sxw The following table describes the typical setup using the complete Quanser solution. It is assumed that the ROTPEN is being used along with an SRV02, UPM and Q8 ... SRV02 Gyroscope User Manual The Quanser SRV02 and gyroscope system provides a great platform to study gyroscope properties along with control experiments that resemble real-life ... Rotary Servo Base Unit The Rotary Servo Base Unit is the fundamental element of the Quanser Rotary Control family. It is ideally suited to introduce basic control concepts and ... Control Systems Lab Solutions Quansers lab equipment for control systems are precise, robust, open architecture solutions for a wide range of teaching and research applications. The Sound of Music - Do Re Mi Dec 11, 2019 — Download and print in PDF or MIDI free sheet music for Do-Re-Mi by Rodgers & Hammerstein arranged by hadasmeyer for Piano (Solo)

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