

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.

2014 Learner Guide Grade 12 Experiment Preparing Different Esters

Judd E. Hollander



2014 Learner Guide Grade 12 Experiment Preparing Different Esters:

English Language Learners in the Southeastern United States Ester J. de Jong, Eric Dwyer, Mary Elizabeth Wilson-Patton, 2024-07-25 This book examines the impact of and response to the rapidly growing English language learner ELL populations in the southeastern United States on K 16 schooling Using examples of policy and practice from seven states Alabama Arkansas Florida Georgia North Carolina and Tennessee the book explores how the contemporary context of accountability regimes and neoliberal tenets affect educational responses to the increased linguistic and cultural diversity in schools and how these realities may be different from when traditional states such as California or Florida were developing their responses to im migration The collection of chapters addresses key questions of teacher preparation effective infrastructures and frameworks for serving ELLs dual language bilingual education and advocacy efforts at the state district and local level in the Southeast The authors describe promising practices in each state but also note the need for more systemic statewide approaches that resist the enduring monolingual discourse that has historically characterized much of ELL schooling They call for transformative policies and practices that take current research into account and that stress the centrality of pluralistic principles to design effective schools for ELLs **Dissertation Abstracts International** ,1970

Braunwald's Heart Disease E-Book Douglas P. Zipes, 2018-01-09 Trusted by generations of cardiologists for the latest most reliable guidance in the field Braunwald s Heart Disease 11th Edition remains your 1 source of information on rapidly changing clinical science clinical and translational research and evidence based medicine This award winning text has been completely updated providing a superior multimedia reference for every aspect of this fast changing field including new material about almost every topic in cardiology A unique update program by Dr Braunwald creates a living textbook by featuring weekly Hot off the Press and periodic Late Breaking Clinical Trials including links to authors presentation slides More than a dozen new chapters cover Chronic Lung Disorders and Cardiovascular Disease Transcatheter Treatment of Congenital Heart Disease Approach to the Patient with Valvular Heart Disease Obesity and Cardiometabolic Disease Environmental Exposures and CVD Approach to the Patient with Cardiac Arrhythmias Cardio oncology Precision Medicine and more New information on clinical cardiovascular genetics MR PET MR device compatibility fibrosis fusion imaging OCT IVUS left atrial appendage exclusion approaches and other topics Many new videos that elucidate coronary peripheral valvular congenital heart diseases and other cardiovascular diseases Expert Consult™ eBook version included with purchase This enhanced eBook experience allows you to search all of the text figures and references from the book on a variety of devices **Biodiesel from Flowering Plants** Samuel Paul Raj, Pravin Raj Solomon, Baskar Thangaraj, 2022-01-01 This book offers an exhaustive coverage of process modifications in biodiesel production from oil drawn from 84 oleaginous plant species occurring in all parts of the world thereby enlisting the scope and potential of many new and non conventionally obscure plant sources Biodiesel now prepared from major vegetable oils has become a compulsion to offset

the dwindling reserve of petro diesel which naturally intrudes into the cooking oil demand This has necessitated search for new sources The book consolidates the biodiesel production from oils being extracted from conventional plants and also from a plethora of new and non conventional plants along with their habit and habitats history of biodiesel s invention explanation on species wise biodiesel process variables catalytic inclusions global standards fuel properties varying with species blending benefits cost effectiveness shelf life ignition characteristics fuel consumption and engine performances with eco friendly exhaust This book is of immense use to teachers researchers scientists of climatology and carbon footprint energy consultants fuel chemists students of agriculture and forestry automobile engineering industrial chemistry environmental sciences and policy makers or anyone who wishes to scale up the biodiesel industry *Instructor* ,1962 *Emulsions* Alexandru Grumezescu,2016-06-13 *Emulsions* the third volume of the Nanotechnology in the Food Industry series is an invaluable resource for anyone in the food industry who needs the most recent information about scientific advances in nanotechnology on this topic This volume focuses on basic and advanced knowledge about nanoemulsion and presents an overview of the production methods materials solvents emulsifiers and functional ingredients and current analytical techniques that can be used for the identification and characterization of nanoemulsions The book also discusses the applications of nanoemulsion with special emphasis on systems suitable for utilization within the food industry This book is useful to a wide audience of food science research professionals and students who are doing research in this field as well as others interested in recent nanotechnological progress worldwide Presents fundamentals of nanoemulsions methods of preparation high energy and low energy techniques and applications in the food industry Includes research studies of nanoemulsification technology to improve bioavailability of food ingredients and research analysis Offers benefits and methods of risk assessment to ensure food safety Presents cutting edge encapsulating systems to improve the quality of functional compounds Provides a variety of methods such as high shear stirring high pressure homogenizers self emulsification phase transitions and phase inversion to further research in this field *Government reports annual index* ,199? **Environmental Risk Assessment** Ted Simon,2019-12-06 The purpose of risk assessment is to support science based decisions about how to solve complex societal problems Indeed the problems humankind faces in the 21st century have many social political and technical complexities Environmental risk assessment in particular is of increasing importance as health and safety regulations grow and become more complicated Environmental Risk Assessment A Toxicological Approach 2nd Edition looks at various factors relating to exposure and toxicity human health and risk In addition to the original chapters being updated and expanded upon four new chapters discuss current software and platforms that have recently been developed and provide examples of risk characterizations and scenarios Features Introduces the science of risk assessment past present and future Provides environmental sampling data for conducting practice risk assessments Considers how bias and conflict of interest affect science based decisions in the 21st century Includes fully worked examples

case studies discussion questions and suggestions for additional reading Discusses new software and computational platforms that have developed since the first edition Aimed at the next generation of risk assessors and students who need to know more about developing conducting and interpreting risk assessments the book delivers a comprehensive view of the field complete with sufficient background to enable readers to probe for themselves the science underlying the key issues in environmental risk Science Citation Index ,1994 Vols for 1964 have guides and journal lists

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