

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.

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A comprehensive look at biomarkers in neurodegenerative diseases: from early diagnosis to treatment response assessment Riccardo Pascuzzo, Federico Angelo Cazzaniga, Yi Min Wan, Fulvia Palesi, 2025-08-18 Neurodegenerative diseases NDs represent an increasing global health challenge affecting millions of people worldwide and placing a significant burden on healthcare systems Key molecular pathways of numerous NDs such as Alzheimer s disease Parkinson s disease and prion diseases consist of the misfolding aggregation and accumulation of specific proteins in the brain preceding the clinical manifestation of symptoms These proteins have been extensively investigated in clinical research studies with the aim of identifying potential biomarkers for improving the diagnosis and prognosis of NDs *From Traditional to Modern: Progress of Molds and Yeasts in Fermented-Food Production* Wanping Chen, Jae-Hyuk Yu, Kap-Hoon Han, Jun-ichi Maruyama, Xucong Lv, Van-Tuan Tran, 2022-06-30 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 *Detection of Intrusions and Malware, and Vulnerability Assessment* Leyla Bilge, Lorenzo Cavallaro, Giancarlo Pellegrino, Nuno Neves, 2021-07-09 This book constitutes the proceedings of the 18th International Conference on Detection of Intrusions and Malware and Vulnerability Assessment DIMVA 2021 held virtually in July 2021 The 18 full papers and 1 short paper presented in this volume were carefully reviewed and selected from 65 submissions DIMVA serves as a premier forum for advancing the state of the art in intrusion detection malware detection and vulnerability assessment Each year DIMVA brings together international experts from academia industry and government to present and discuss novel research in these areas Chapter SPECULARIZER Detecting Speculative Execution Attacks via Performance Tracing is available open access under a Creative Commons Attribution 4 0 International License via link [springer.com](https://www.springer.com) Dissertation Abstracts International ,1970 Braunwald's Heart Disease E-Book Douglas P. Zipes, 2018-01-09 Trusted by generations of cardiologists for the latest

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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

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