

CHEMISTRY LABORATORY REPORT
SK025



NAME : Yuelina alp Muliawati
NO. OF EXPERIMENT : 4
DATE OF EXPERIMENT : 25/4/2022
PRACTICUM : HVP2
LECTURER'S NAME : Mdm. Gan Fie Chuen

| | |
|-----------|---|
| TITLE | Reactions of Aliphatic and Aromatic Hydrocarbons |
| OBJECTIVE | <ol style="list-style-type: none">1. To study the chemical properties of an alkane, alkene and arene2. To differentiate an alkane from alkene and arene |
| THEORY | <p>Hydrocarbons are organic compounds that contain only carbon and hydrogen. Alkanes which are also known as paraffins are saturated hydrocarbons. They do not contain double or triple bonds. Hence, alkanes are relatively inert to chemical reactions. Alkanes undergo free radical substitution reaction.</p> <p>Alkenes are unsaturated hydrocarbons, with at least one double bond between two carbon atoms. Alkenes can easily undergo addition reactions at the C=C bond. For example, alkenes undergo hydrogenation and halogenation to form alkanes and dihalides respectively. Alkenes can also react with potassium permanganate solution in two different conditions.</p> <p>Arenes are aromatic hydrocarbons with stable molecular structures. Although arenes have a very high degree of unsaturation, they are relatively inert towards all addition reactions except at very high pressure and temperature. Arenes undergo electrophilic aromatic substitution reactions in the presence of a Lewis acid catalyst.</p> |

Matriculation Chemistry Lab Report Experiment 5

RJ Alexander



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Louisiana Planter and Sugar Manufacturer, 1922 **The Louisiana Planter and Sugar Manufacturer**, 1922 **The Reference Catalogue of Current Literature**, *Reference Catalogue of Current Literature*, 1932 The St. Louis Druggist, 1883 **Continent**, 1923 **Interior**, 1923 *Lovejoy's College Guide* Clarence Earle Lovejoy, 1976
Lovejoy's College Guide, 1940 **New Scientist**, 1988 **New Scientist and Science Journal**, 1988

Experiments in General Chemistry, Lab Manual Rupert Wentworth, Barbara H. Munk, 2012-03-09 Each experiment in this manual was selected to match topics in the textbook and includes an introduction a procedure a page of pre lab exercises about the concepts the lab illustrates and a report form Some have a scenario that places the experiment in a real world context In addition each experiment has a link to a set of references and helpful online resources **CHEMISTRY**

EXPERIMENTS James Signorelli, 2014-09-19 Gifted and talented students and any student interested in pursuing a science major in college needs a rigorous program to prepare them while they are still in high school This book utilizes a format where the application of several disciplines science math and language arts principles are mandated Each lab concludes with either an essay or a detailed analysis of what happened and why it happened This format is based on the expectations of joining a university program or becoming an industrial science professional The ideal student lab report would be written in a lab research notebook and then the essay or final analysis is done on a word processor to allow for repeat editing and corrections The research notebook has all graph pages a title section and a place for the students and their assistants to sign and witness that exercise The basic mechanics of the lab report title purpose procedure diagrams data table math and calculations observations and graphs are handwritten into the book The conclusion is done on a word processor MS Word which allows the instructor to guide the student in writing and editing a complete essay using the MLA format When the final copy is completed the essay is printed and inserted into the lab notebook for grading At the end of the term the student has all their labs in one place for future reference These lab notebooks can be obtained for as little as 3 00 per book This is money well spent In our district the Board of Education buys the books for each student The BOE sees these books as expendable but necessary materials for all science and engineering instruction *National 5 Chemistry Lab Skills for the Revised Exams of 2018 and Beyond* Bob Wilson, Leckie, 2019-01-24 Exam Board SQA Level National 5 Subject Chemistry First Teaching 2017 First Exam 2018 Covers all required techniques and apparatus Provides practice in all skills of scientific inquiry Supports Assignment work *Laboratory Experiments for Chemistry, the Central Science, 5th Ed* John Henry Nelson, 1991 **The Student Lab Report Handbook** John D. Mays, 2014-06-01 Second Edition **Report Prepared for Chemistry 5** Benjamin Alexander, 1930 Report of Work in Chemistry 5 Philip Greeley Stevens, 1924 **Chem 341 Experiment 5, Reference 2** J. Cooke, **Advanced Chemistry Lab Manual (Chem 305 Level)** Riley Ashford, 2025-08-15
Unlock the full potential of your chemistry studies with the Advanced Chemistry Lab Manual Chem 305 Level your ultimate

companion for mastering laboratory techniques analytical skills and experimental rigor Designed specifically for upper division undergraduate chemistry courses this comprehensive guide equips students with everything they need to succeed in complex laboratory environments Whether you are a chemistry major preparing for research an advanced student refining your lab skills or a dedicated learner aiming to achieve precision and confidence in every experiment this manual provides a clear structured and professional approach to laboratory work Inside this expertly crafted lab manual you ll discover Step by Step Experimental Procedures Each experiment is presented with detailed instructions practical examples and clear guidance to ensure accuracy and reproducibility Advanced Measurement Techniques Learn the proper use of balances volumetric tools spectrophotometers pH meters and other essential instruments with thorough explanations of calibration maintenance and error handling Solution Preparation and Titration Mastery Understand molarity normality serial dilutions buffer systems and acid base redox and complexometric titrations with practical examples and calculations Separation Purification and Spectroscopic Methods Gain hands on experience with filtration distillation recrystallization chromatography TLC column HPLC UV Vis IR and atomic absorption techniques Thermochemistry and Kinetics Explore calorimetry enthalpy changes reaction rates reaction order determination and the effects of temperature and catalysts on chemical reactions Electrochemistry and Synthesis Delve into galvanic and electrolytic cells measuring cell potentials electroplating and the synthesis and characterization of inorganic and organic compounds Professional Data Analysis and Reporting Master statistical treatments error propagation integrating graphs and tables and writing polished accurate lab reports that meet academic standards Comprehensive Appendices Access the periodic table common constants and conversion factors SDS examples reference tables lab report templates and a glossary of essential chemistry terms This manual emphasizes practical learning scientific rigor and professional communication making it an indispensable resource for students seeking to excel in laboratory coursework research or advanced chemistry applications With clear explanations detailed examples and actionable guidance the Advanced Chemistry Lab Manual Chem 305 Level bridges the gap between theoretical knowledge and hands on laboratory expertise Equip yourself with the confidence precision and analytical skills that top chemistry programs demand Prepare Experiment Analyze Excel

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