

UNIT-8

Aldehydes, Ketones And Carboxylic Acid

Marks = 7

Q.1 Describe the method for the preparation of Acetone in laboratory and give the chemical equation with labeled diagram.

Ans **Laboratory Preparation** – In laboratory, acetone is prepared by the dry distillation of dry calcium acetate.

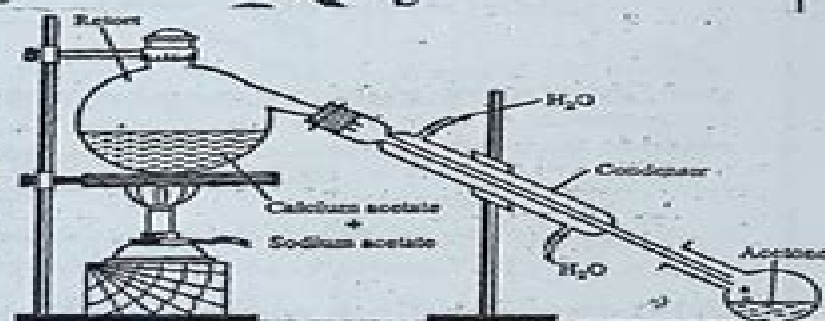


Fig. Preparation of Acetone in the laboratory

Procedure – Fused calcium acetate mixed with little iron filings is taken in a retort fitted with a water condenser and a receiver. Iron filings help in the uniform distribution of heat. The mixture in the retort is then heated very carefully, at first to avoid cracking, moving the flame all the while. Finally, heat strongly with full flame until all the liquid has come over. The distillate is shaken with a saturated solution of sodium bisulphate when colourless crystals are formed. These are filtered and distilled with saturated solution of sodium carbonate. The aqueous solution of acetone is dried over anhydrous CaCl_2 and redistilled to obtain pure acetone.

Uses – (i) In the formation of synthetic rubber.

(ii) In the formation of artificial perfume.

(iii) In the formation of acetic anhydride which is used for preparing artificial and different types of plastics.

(iv) As a solvent for cellulose acetate.

Q. 2 Explain the following reactions.

(i) Rosenmund's reaction (09,12,22)

(iii) Gattermann aldehyde synthesis

(vii) Etard reaction (20,23)

(ii) Stephen reaction (19)

(iv) Gattermann-Koch synthesis (09,12,20)

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Daniela Niemeyer

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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to win the next frontier of innovation **Addressing Violence Against Women on College Campuses** Catherine Kaukinen,Michelle Miller,Rachael A. Powers,2017-07 Violence against women on college campuses has remained underreported and often under addressed by both campus security and local law enforcement as well as campus administrators The researchers practitioners and activists who contribute to this pertinent volume Addressing Violence Against Women on College Campuses examine the extent nature dynamic and contexts of violence against women at institutions of higher education This book is designed to facilitate an ongoing discussion and provide direction on how best to prevent and investigate violence against women and intervene to assist victims while reducing the impact of these crimes Chapters detail the necessary changes and implications that are part of Title IX and other federal legislation and initiatives as well as the effect these changes have had for higher education actors including campus administrators victim advocates and student activists The contributors also explore the importance of campus efforts to estimate the extent of violence against women educating young men and women on the nature of sexual and dating violence and shifting efforts to both make offenders accountable for their crimes and prompt all bystanders to act Addressing Violence Against Women on College Campuses urgently argues to make violence prevention is not separate from but rather an integral part of the student experience Contributors include Antonia Abbey Joanne Belknap Ava Blustein Stephanie Bonnes Alesha Cameron Sarah L Cook Walter S DeKeseredy Helen Eigenberg Kate Fox Christopher P Krebs Jennifer Leili Christine Lindquist Sarah McMahon Caitlyn Meade Christine Mouton Matt R Nobles Callie Marie Rennison Meredith M Smith Carmen Suarez and the editors

The Theory and Practice of the East Asian Library Hong Cheng,2023-01-09 Presenting groundbreaking research on the East Asian library this book provides theoretical exploration on the subject through a passive model of glocalism It details various aspects of the field and comprehensively covers the progress and conflicts in practice The issues and perspectives raised here will lead to a rethinking of the field and its role in global interactivity with East Asia The book will also provide library guidance to the scholars in East Asian studies and related disciplines offering support to East Asian resources and services that significantly affect scholarly activities **Sustainable Leadership** Clarke Murphy,2022-09-22 Wall Street Journal and Publishers Weekly Bestseller Deliver Extraordinary Sustainability Results for Your Business In Sustainable Leadership Lessons of Vision Courage and Grit from the CEOs Who Dared to Build a Better World accomplished leadership expert Clarke Murphy shares a can t miss toolkit for delivering remarkable sustainability results You ll learn what it takes to become a Sustainable Leader and how you can turn your sustainability promises into tangible action on the ground Drawing on the real life stories of Sustainable Leaders from across the world Murphy proves that sustainability success is within reach for every business executive He debunks the myth that sustainability is at odds with profitability and reveals the inside track on how to make sustainability your new growth strategy You ll find A step by step framework on how to build your Sustainable Leadership legacy Pragmatic examples of balancing the demands of shareholders and other stakeholders

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Table of Contents Chapterr 8 Everfi

1. Understanding the eBook Chapterr 8 Everfi
 - The Rise of Digital Reading Chapterr 8 Everfi
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapterr 8 Everfi
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Chapterr 8 Everfi
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapterr 8 Everfi
 - Personalized Recommendations

- Chapterr 8 Everfi User Reviews and Ratings
- Chapterr 8 Everfi and Bestseller Lists
- 5. Accessing Chapterr 8 Everfi Free and Paid eBooks
 - Chapterr 8 Everfi Public Domain eBooks
 - Chapterr 8 Everfi eBook Subscription Services
 - Chapterr 8 Everfi Budget-Friendly Options
- 6. Navigating Chapterr 8 Everfi eBook Formats
 - ePub, PDF, MOBI, and More
 - Chapterr 8 Everfi Compatibility with Devices
 - Chapterr 8 Everfi Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chapterr 8 Everfi
 - Highlighting and Note-Taking Chapterr 8 Everfi
 - Interactive Elements Chapterr 8 Everfi
- 8. Staying Engaged with Chapterr 8 Everfi
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chapterr 8 Everfi
- 9. Balancing eBooks and Physical Books Chapterr 8 Everfi
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chapterr 8 Everfi
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Chapterr 8 Everfi
 - Setting Reading Goals Chapterr 8 Everfi
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Chapterr 8 Everfi
 - Fact-Checking eBook Content of Chapterr 8 Everfi

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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