

12. Aldehydes, Ketones and Carboxylic Acids

Two mark questions

1. Explain Rosenmund reduction with equation. (OR) How would you prepare acetaldehyde from acetyl chloride? Name the reaction.

Acetyl chloride on reduction with H_2 in presence of $Pd-BaSO_4$ give acetaldehyde.



Rosenmund reaction

2. Aldehydes are generally more reactive than ketones towards nucleophilic addition reactions. Give any two reasons.

Aldehydes are more reactive towards nucleophilic addition than ketones due to (i) more polar carbonyl group and (ii) less steric hindrance

3. Explain the mechanism of addition of HCN to a carbonyl group in presence of a base.



Nucleophilic attack of CN^- on electrophilic carbon followed by gain of proton.



4. Explain Clemmensen reduction with an example.

Aldehydes and ketones react with zinc amalgam in conc. HCl to form respective hydrocarbon. This reaction is called Clemmensen reduction.

Example:



5. Explain the reaction of CH_3COCl with $NaOH$ in alkaline medium. Name the reaction. Write the mechanism with electron pushing arrows. Give the structure of the final product.



6. Explain the reaction of CH_3COCl with $NaOH$ in alkaline medium. Name the reaction. Write the mechanism with electron pushing arrows. Give the structure of the final product.



Aldehydes Ketones Carboxylic Acids Lab Answers

David Baud



Aldehydes Ketones Carboxylic Acids Lab Answers:

OLYMPIAD EHF SCIENCE EXPLORER CLASS- 12 Dr. Sandeep Ahlawat, 2023-01-15 100 s of Q s with answer Chapterwise Practice Q s Revision Q s Sample Paper New updated questions Workbook must for schools student preparing for National Interactive Science Olympiad NISO conducted by EHF Eduheal Foundation and other national international olympiad talent search exams Based on CBSE ICSE GCSE State Board Syllabus NCF NCERT Chemistry for Degree Students B.Sc. Semester - II (As per CBCS) Madan R.L., 2017 This textbook has been designed to meet the needs of B Sc Second Semester students of Chemistry as per the UGC Choice Based Credit System CBCS With its traditional approach to the subject this textbook lucidly explains principles of chemistry Important topics such as chemical energetics chemical ionic equilibrium aromatic hydrocarbons alkyl aryl halides alcohols phenols ethers aldehydes and ketones are aptly discussed to give an overview of physical and organic chemistry Laboratory work has also been included to help students achieve solid conceptual understanding and learn experimental procedures *Report summaries* United States. Environmental Protection Agency, 1983 Examrackers 1001 Questions in MCAT Organic Chemistry Michelle Gilbertson, 2006 This book contains 1001 organic chemistry questions covering all the organic chemistry topics tested by the MCAT Each question is in the MCAT multiple choice format Questions are arranged by topic and range from basic to extremely difficult Typically questions on a given topic begin easy and become progressively more difficult Answers with explanations and formulas are provided

Safety-Scale Lab Exp Biochem 2e Spencer L. Seager, Michael R. Slabaugh, 1994-05 **Radioactive Waste Management**, 1995-04 **Energy Research Abstracts**, 1982 **Curriculum Review**, 1982 **The Student's Lab Companion** John W. Lehman, 2008 This comprehensive lab companion provides enough theory to help students understand how and why an operation works but emphasizes the practical aspects of an operation to help them perform the operation successfully in the lab For undergraduate or graduate students taking organic chemistry lab This comprehensive lab companion provides enough theory to help students understand how and why an operation works but emphasizes the practical aspects of an operation to help them perform the operation successfully in the lab The Second Edition makes substantive revisions of many operations to clarify existing material and add new information More environmentally friendly i e green lab experiments are encouraged Ideal for professors who write their own lab experiments or would like custom labs but need a source for lab operations and safety information **Energy Research Abstracts**, 1995 *Chemical Investigations for Changing Times* C. Alton Hassell, John Hill, 2001 **U.S. Government Research & Development Reports**, 1966-11 *Biology/science Materials* Carolina Biological Supply Company, 1991 **Government Reports Announcements & Index**, 1980 EPA Publications Bibliography, 1980 General, Organic, and Biological Chemistry Study Guide and Selected Solutions Karen C. Timberlake, 2001-11 Keyed to the learning goals in the text this guide is designed to promote active learning through a variety of exercises with answers and mastery exams The guide also contains

complete solutions to odd numbered problems **Scientific and Technical Aerospace Reports** ,1980 U.S.
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