

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 HCl 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:



Aldehydes Ketones Carboxylic Acids Lab Answers

David Baud

Aldehydes Ketones Carboxylic Acids Lab Answers:

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