

Chemistry

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(Chapter 12) (Aldehydes, Ketones and Carboxylic Acids) (Intext Questions)
(Class 12)

Question 12.4:

Arrange the following compounds in increasing order of their reactivity in nucleophilic addition reactions.

(i) Ethanal, Propanal, Propanone, Butanone.

(ii) Benzaldehyde, *p*-Tolualdehyde, *p*-Nitrobenzaldehyde, Acetophenone.

Hint: Consider steric effect and electronic effect.

Answer 12.4:

(i) The +I effect of the alkyl group increases in the order:

Ethanal < Propanal < Propanone < Butanone

The electron density at the carbonyl carbon increases with the increase in the +I effect. As a result, the chances of attack by a nucleophile decrease. Hence, the increasing order of the reactivities of the given carbonyl compounds in nucleophilic addition reactions is:

Butanone < Propanone < Propanal < Ethanal



(ii) The +I effect is more in ketone than in aldehyde. Hence, acetophenone is the least reactive in nucleophilic addition reactions. Among aldehydes, the +I effect is the highest in *p*-tolualdehyde because of the presence of the electron-donating -CH₃ group and the lowest in *p*-nitrobenzaldehyde because of the presence of the electron-withdrawing -NO₂ group.

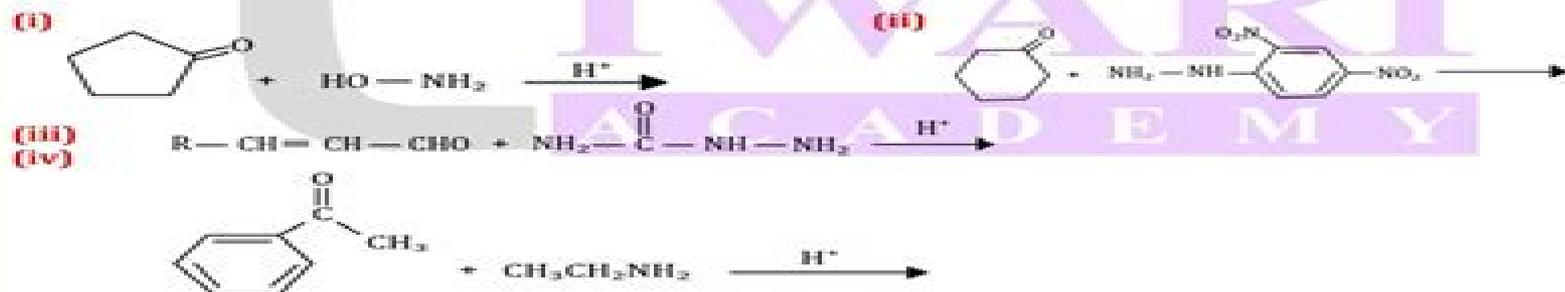
Hence, the increasing order of the reactivities of the given compounds is:

Acetophenone < *p*-tolualdehyde < Benzaldehyde < *p*-Nitrobenzaldehyde



Question 12.5:

Predict the products of the following reactions:



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Table of Contents Chapter 12 Chemistry

1. Understanding the eBook Chapter 12 Chemistry
 - The Rise of Digital Reading Chapter 12 Chemistry
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 12 Chemistry
 - 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 Chapter 12 Chemistry
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 12 Chemistry
 - Personalized Recommendations
 - Chapter 12 Chemistry User Reviews and Ratings
 - Chapter 12 Chemistry and Bestseller Lists

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