

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 $-\text{CH}_3$ group and the lowest in *p*-nitrobenzaldehyde because of the presence of the electron-withdrawing $-\text{NO}_2$ group.

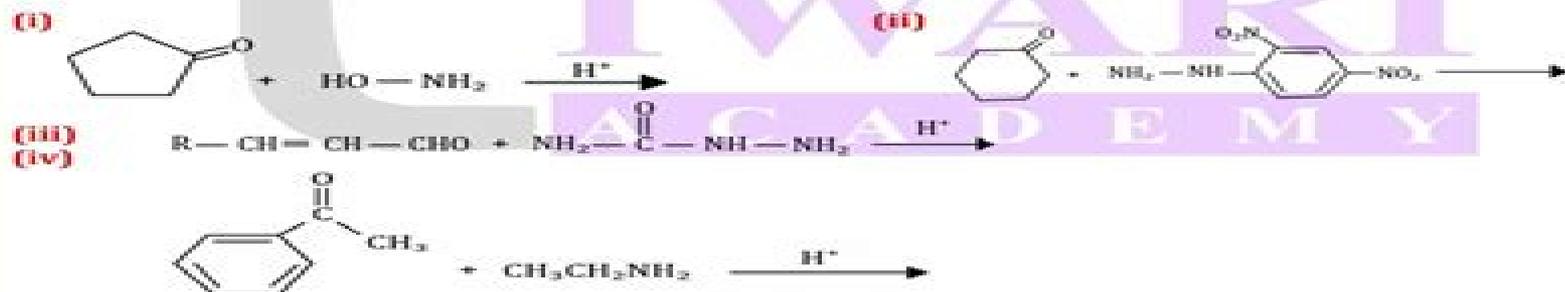
Hence, the increasing order of the reactivities of the given compounds is:

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



Question 12.5:

Predict the products of the following reactions:



Chapter 12 Chemistry

Leo J. Malone, Theodore O. Dolter



Chapter 12 Chemistry:

Hearings and Reports on Atomic Energy United States. Congress. Joint Committee on Atomic Energy,1956 **Soil and Water Chemistry** Michael E. Essington,2015-04-24 The second edition of a bestseller Soil and Water Chemistry An Integrative Approach maintains the balanced perspective that made the first edition a hugely popular textbook The second edition includes new figures and tables new chapters and expanded exercises in each chapter It covers topics including soil chemical environment soil minerals **Industrial & Engineering Chemistry** ,1923 Research and Related Services in the United States Department of Agriculture United States. Agricultural Research Administration,1951 Chemical Abstracts ,1925 *Hearings* United States. Congress. Joint Committee ...,1956 **Committee Prints** United States. Congress. House. Committee on Agriculture,1951 Shortage of Scientific and Engineering Manpower United States. Congress. Joint Committee on Atomic Energy. Subcommittee on Research and Development,1956 **Shortage of Scientific and Engineering Manpower** United States. Congress. Joint Committee on Atomic Energy,1956 **Industrial and Engineering Chemistry** ,1923 *Colloid Chemistry* Jerome Alexander,1929 Journal of the American Chemical Society American Chemical Society,1928 Proceedings of the Society are included in v 1 59 1879 1937 *The Chemical News* ,1922 **Basic Concepts of Chemistry** Leo J. Malone,Theodore O. Dolter,2012-04-13 Basic Concepts of Chemistry was originally written over thirty years ago to address the needs of general chemistry students with little or no background in chemistry Over time the text has evolved beyond purposes solely aimed at a preparatory chemistry course For some preparatory chemistry students a main sequence in general chemistry may follow but for others a semester of organic and biochemistry may follow Other students enroll to simply satisfy a basic science or chemistry requirement The text was written with a level and functionality designed to accommodate the needs of each of these varied groups of students Basic Concepts of Chemistry was designed with a flexibility that allows instructors to emphasize or omit certain clearly delineated sections The mission of the text has evolved in response to the increased diversity of students and the emphasis on outcomes assessment **Chemical Control of Gas Manufacture** ,1916 **Boston Journal of Chemistry and Pharmacy** ,1890 **Chemical News and Journal of Physical Science** William Crookes,James H. Gardiner,Gerald Druce,H. W. Blood-Ryan,1922 *Chemical News and Journal of Industrial Science* ,1921 *The Chemical News and Journal of Industrial Science* ,1922 **Journal of the Society of Chemical Industry** Society of Chemical Industry (Great Britain),1925 Includes list of members 1882 1902 proceedings of the annual meetings and various supplements

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