

ALDEHYDE, KETONE, CARBOXYLIC ACID :-

③

(ORGANIC CHAPTER-3)

The functional group $>C=O$ is called carbonyl group. Organic compounds containing carbonyl groups are aldehydes, ketones, carboxylic acids and their derivatives. The general formulae of these compounds are given below:-



Aldehyde

IUPAC:- Alkanal

(Where R may be H or any alkyl, aryl or aralkyl group)



Ketone

IUPAC:- Alkanone

(Where R and R' may be same or different alkyl, aryl or aralkyl group)



Carboxylic acid

IUPAC:- Alkanecarboxylic acid

(Where R may be H or any alkyl, aryl or aralkyl group)

Derivatives of Carboxylic acids :-



Acyl halide
(X = halogen)



Acid anhydride
(Where R & R' may be same or different groups)



Ester




(Where R & R' may be same or different groups)



Acid amide

(Where R may be H or any group)

IUPAC names of some aldehyde & ketone that were asked in the board examination:-

STRUCTURE	IUPAC name	STRUCTURE	IUPAC name
1. CH_3-CH_2-CHO	Propanal	9. $CH_3COCH_2COCH_3$	Pentane-2,4 dione
2. $CH_3-\underset{\underset{OH}{\mid}}{CH}-CH_2-\underset{\underset{O}{\parallel}}{C}-CH_3$	4-hydroxypentan-2-one	10. $CH_2=CH-\overset{\overset{O}{\parallel}}{C}-CH_3$	But-3-en-2-one
3. $CH_3-\underset{\underset{CH_3}{\mid}}{CH}-CHO$	2-methylpropanal	11. 	2-hydroxybenzaldehyde
4. $CH_3-CH_2-CH=CH-\overset{\overset{O}{\parallel}}{C}-H$	Pent-2-en-1-al	12. $CH_3-CH_2-\overset{\overset{O}{\parallel}}{C}-CH_2-\overset{\overset{O}{\parallel}}{C}-H$	3-oxopentanal
5. $CH_3-\underset{\underset{O}{\parallel}}{C}-CH=CH-\underset{\underset{CH_3}{\mid}}{C}-CH_3$	4-methylpent-3-en-2-one	13. $CH_3-C\equiv C-CH=CH-\overset{\overset{O}{\parallel}}{C}-OH$	Hex-2-en-4-ynoic acid
6. $CH_3-\underset{\underset{Cl}{\mid}}{C}-CH_2-\underset{\underset{Cl}{\mid}}{CH}-CH_3$	4-chloropentan-2-one	14. $CH-\overset{\overset{O}{\parallel}}{C}-\text{C}_6\text{H}_4-\overset{\overset{O}{\parallel}}{C}-OH$	Benzene-1,4-di carboxylic acid
7. 	2-chlorophenylethanone		
8. 	4,4'-dihydroxy benzophenone		

Aldehydes Ketones Carboxylic Acids Lab Answers

Michelle Gilbertson



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