



Check Your Learning: 7

Topic: Fundamental concepts of organic chemistry

Fill in the banks (Draw structures to support your answers)

1. Central carbon of neopentane is carbon. Isopropyl chloride is alkyl halide and tert-butyl chloride is a alkyl halide.
2. Allyl carbocation is stable than tertiary carbocation due to.....
3. There are two types of carbonyl compounds..... and Carbonyl carbon is in nature.
4. Benzamide contains..... functional group. Structure of this functional group is..... This functional group has effect.
5. Ethyl benzene is a type of but acetophenone contains..... functional group.
6. 2-Butene can form isomers. Relationship between 1-butene and 2-butene is.....
7. Structure of benzyl carbocation.....
8. In vinyl chloride the carbon connects with Cl is hybrid
9. Number of chiral carbons in 2, 3 butane di ol.....
10. Methyl propyl amine is a amine. It can form types of isomerism.
11. When acetic acid reacts with ethanol in presence of Conc. H_2SO_4 it gives..... compound. IUPAC name of the compound is.....
12. OH^- is a nucleophile than H_2O due to
13. (a) o-Xylene is , (b) o-cresol contains..... functional group, (c) p-toladiene contains..... functional group, (d) Glycerol contains..... functional groups.
15. n-pentane can form isomers. Each isomer differ in their..... due to..... intermolecular forces.
16. Ethanol oxygen is hybridized. In acetone carbonyl oxygen is hybridized. Propyne first carbon is..... hybridized.

17. Chlorobenzene ishalide and ethyl chloride is.....halide.

18. p-Nitroaniline has two groups and they have different electronic effect..... group haseffect which deactivates benzene ring and haswhich activates the benzene ring.

19. 1-pentyne converts to pentane in presence of..... This type of reaction is known as.....or

20. Name of -COCl functional group isIt can be synthesized fromfunctional group.

21. Optical rotation of chiral compounds is measured by instrument. (+)d means..... and (-)l means.....

22. Optically active compound ishybridized. When two isomers have non-superimposable mirror image they are called.....

23. Ethoxyethane ismolecule. Cyclopentancarbaldehyde is.....molecule.

24. Benzoic acid has.....functional group. This FG has.....effect which..... aromatic ring

25. Tertiary carbanion is least stable than secondary and primary due to.....

All the best