



Check Your Learning: 7

Topic: Fundamental concepts of organic chemistry

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

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

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All the best