



CHEMISTRY

NCERT - NCERT CHEMISTRY(TELUGU)

ETHERS

Self Evaluation A Choose The Correct Answer

1. The isomerism exhibited by

$C_2H_5OC_2H_5$ and $CH_3 - O - \underset{\substack{| \\ CH_3}}{CH} - CH_3$ is

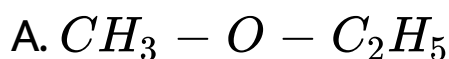
- A. Functional
- B. metamerism
- C. position
- D. chain

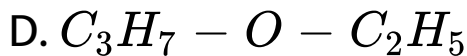
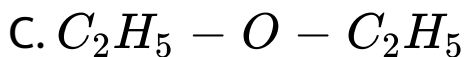
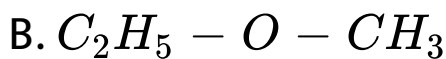
Answer:



Watch Video Solution

2. Which of the following is a simple ether?





Answer:



Watch Video Solution

3. Diethyl ether can be decomposed with



C. NaOH

D. H_2O

Answer:



Watch Video Solution

4. Oxygen atom in ether is

A. very active

B. Replacable

C. oxidising

D. Comparatively inert

Answer:



Watch Video Solution

5. According to Lewis concept of acids and bases, ethers are

A. Neutral

B. Acidic

C. Basic

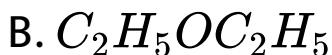
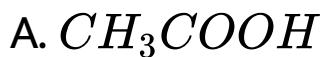
D. Amphoteric

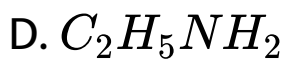
Answer:



Watch Video Solution

6. Intermolecular hydrogen bonds are not present in





Answer:



Watch Video Solution

7. When ethyl iodide is heated with dry silver oxide the product formed is

A. Ethyl alcohol

B. diethylether

C. silver ethoxide

D. ethylmethyl ether

Answer:



Watch Video Solution

8. Williamson synthesis is an example of

A. nucleophilic addition

B. electrophilic addition

C. electrophilic substitution

D. Nucleophilic substitution reaction

Answer:



Watch Video Solution

9. When ether is exposed to air for sometime an explosive substance produced is

A. peroxide

B. oxide

C. TNT

D. superoxide

Answer:



Watch Video Solution

10. Ether is formed when alkylhalide is treated with sodium alkoxide. This method is known as

- A. Hoffmann reaction
- B. Williamson's synthesis
- C. Wurtz synthesis
- D. Kolbe's reaction

Answer:

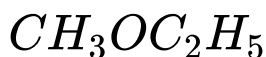


Watch Video Solution

Self Evaluation B Pickout The Incorrect Statement

1. Pick up the incorrect statement

A. An example of unsymmetrical ether is



B. Ethers exhibit functional isomerism with
alcohols

C. Halogenated ether on treating with
alcohols forms higher ether

D. Ether is lighter than water

Answer:

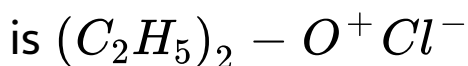


Watch Video Solution

2. Pick up the incorrect statement

A. Diethylether with chlorine in presence of sunlight forms $(C_2Cl_5)_2O$.

B. The formula of diethyl oxonium chloride



C. In anisole oxygen is strongly bonded to benzene ring.

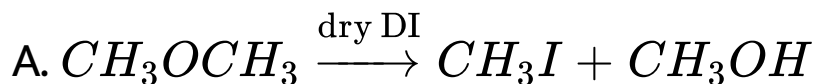
D. Ether is used as solvent for Grignard reagent.

Answer:



Watch Video Solution

3. Pick up the incorrect statement



B. Ether is used as substitute for petrol

C. In Williamson synthesis, ether is formed
using alkoxide and alcohol

D. Ethers act as Lewis base due to the
presence of non-bonding electrons on
oxygen.

Answer:



Watch Video Solution

Self Evaluation C Answer In One Or Two Sentences

1. Write the IUPAC names of

(a) $C_2H_5OCH_3$ (b) $C_6H_5OC_2H_5$



Watch Video Solution

2. Ethers should not be heated to dryness.

Why ?



Watch Video Solution

3. Ethers are the best solvents of Grignard reagents- Account for this statement.



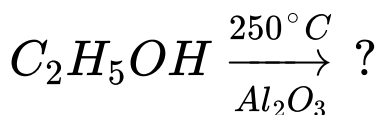
Watch Video Solution

4. Write a note on williamson synthesis.



Watch Video Solution

5. Complete and balance



Watch Video Solution

6. Why are ethers not soluble in water ?



Watch Video Solution

7. Mention the uses of diethyl ether.



Watch Video Solution

8. What happens when anisole is treated with Lewis acid ?



Watch Video Solution

9. What happens when anisole is nitrated ?



Watch Video Solution

10. Write equation for the conversion of phenol to anisole



Watch Video Solution

Self Evaluation D Answer Not Exceeding Sixty Words

1. Write all possible isomers with the molecular formula $C_4H_{10}O$ and name them.



Watch Video Solution

2. Give any three methods of preparing diethyl ether.



Watch Video Solution

3. Mention the methods of preparation of anisole.



Watch Video Solution

4. How does diethyl ether react with the following reagents ?

A. O_2 / long contact

B. HI in excess

C. PCl_5

D. dilute H_2SO_4

Answer:



Watch Video Solution

5. Give any two chemical differences between anisole and an aliphatic ether.



Watch Video Solution

6. Explain the electrophilic substitution reaction of Anisole.



Watch Video Solution

7. Explain the formation of CH_3I and phenol when anisole is heated with HI .



Watch Video Solution

8. Diethyl ether forms peroxide easily while anisole does not form peroxide easily - Explain.



Watch Video Solution