



CHEMISTRY

NCERT - NCERT CHEMISTRY(GUJRATI)

ETHERS

Self Evaluation A Choose The Correct Answer

1. The isomerism exhibited by

$C_2H_5OC_2H_5$ and $CH_3 - O - \underset{\begin{array}{c} | \\ CH_3 \end{array}}{CH} - CH_3$ is

A. Functional

B. metamerism

C. position

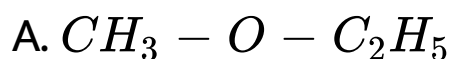
D. chain

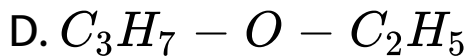
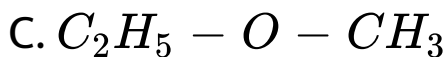
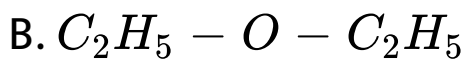
Answer:



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2. Which one of the following is simple ether ?





Answer:



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3. Diethyl ether can be decomposed with



C. NaOH

D. H_2O

Answer:



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4. Oxygen atom of ether is

A. very active

B. Replacable

C. oxidising

D. Comparatively inert

Answer:



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

A. Neutral

B. Acidic

C. Basic

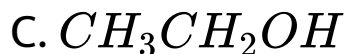
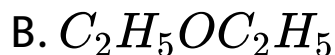
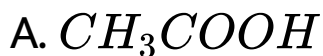
D. Amphoteric

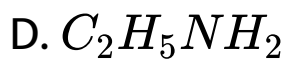
Answer:



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6. Intermolecular hydrogen bonds are not present in





Answer:



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7. When ethyl iodide is treated with dry silver oxide it forms

- A. Ethyl alcohol
- B. diethylether
- C. silver ethoxide

D. ethylmethyl ether

Answer:



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8. Williamson's synthesis is an example of

A. nucleophilic addition

B. electrophilic addition

C. electrophilic substitution

D. Nucleophilic substitution

Answer:



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

A. peroxide

B. oxide

C. TNT

D. superoxide

Answer:



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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:



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Self Evaluation B Pickout The Incorrect Statement

1. Pickout 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

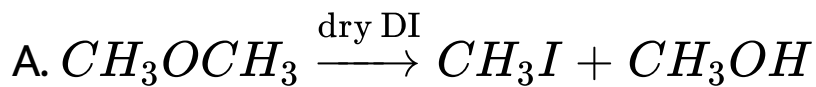
D. Ether is lighter than water

Answer:



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2. Pickout 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:



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Self Evaluation C Answer In One Or Two Sentences

1. Write the IUPAC names of

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



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2. Ethers should not be heated to dryness.

Why ?



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Self Evaluation D Answer Not Exceeding Sixty Words

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



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



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