



CHEMISTRY

BOOKS - PSEB

CARBON AND ITS COMPOUNDS

Exercise

1. Ethane, with the molecular formula $C_2 H_6$ has:

A. 6 covalent bonds.

B. 7 covalent bonds .

C. 8 covalent bonds .

D. 9 covalent bonds .

Answer:



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2. Butanone is a four- carbon compound with the functional group:

A. carboxylic acid.

B. aldehyde.

C. ketone.

D. alcohol.

Answer:



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3. While cooking, if the bottom of the vessel is getting blackened on the outside, it means that:

- A. the food is not cooked completely.
- B. the fuel is not burning completely.
- C. the fuel is wet.
- D. the fuel is burning completely.

Answer:



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4. Explain the nature of the covalent bond using the bond formation in CH_3Cl



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5. Draw the electron dot structures for:
ethanoic acid.



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6. Draw the electron dot structures for: H_2S



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7. Draw the electron dot structures for:
propanone



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8. Draw the electron dot structures for: F_2



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9. What is an homologous series: explain with an example.



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10. How can ethanol and ethanoic acid be differentiated on the basis of their physical and chemical properties?



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11. Why does micelle formation take place when soap is added to water? will a micelle be formed in other solvents such as ethanol also?





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12. Why are carbon and its compounds used as fuels for most application?



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13. Explain the formation of scum when hard water is treated with soap.



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14. What change will you observe if you test soap with litmus paper?



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15. What is hydrogenation? what is its industrial application?



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16. Which of the following hydrocarbons undergo addition reaction : C_2H_6 , C_3H_8 , C_3

H_6 , C_2H_2 and CH_4 .



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17. Give a test that can be used to differentiate between butter and cooking oil.



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18. Explain the mechanism of the cleansing action of soaps



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