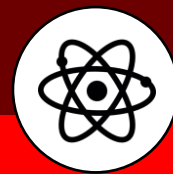


2010

10 Which two of the following are produced by the complete combustion of fuels?

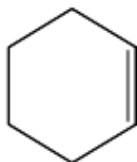
- 1 CH₄
- 2 CO
- 3 CO₂
- 4 H₂O
- 5 He
- 6 NH₃

- A 1 and 3
- B 2 and 4
- C 2 and 6
- D 3 and 4
- E 3 and 6
- F 4 and 5

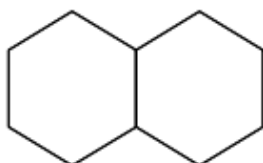


2011

10 Cyclohexene, C_6H_{10} , can be represented as:

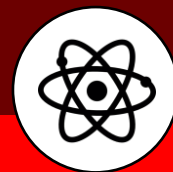


Use this information to calculate the relative molecular mass of the hydrocarbon shown below:



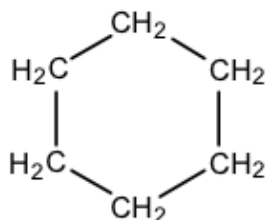
[A_r values: H = 1; C = 12]

- A 108
- B 126
- C 134
- D 138
- E 150

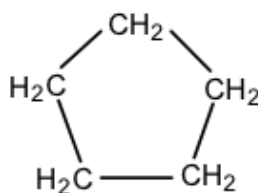


2015

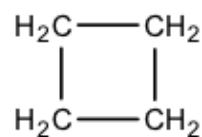
- 14 Cycloalkanes are alkane compounds that are in a ring shape. Some examples of cycloalkanes are given below.



Cyclohexane



Cyclopentane



Cyclobutane

Which statement about these compounds is correct?

- A They have the general formula C_nH_{2n+2}
- B They react rapidly with bromine water
- C They are saturated compounds
- D They burn in excess oxygen to form CO_2 and H_2
- E They are not members of a homologous series
- F They are giant covalent compounds