

Question 17 (3 marks)

Explain why alkanes and their corresponding alkenes have similar physical properties, but very different chemical properties. 3

The difference between an alkene and an alkane is the double bond present in the alkene. ~~They are~~ When they are combusted in air, the alkene takes longer as the double bond present ^{is a chemical property} ~~makes~~ ~~changes~~ it. The result of reaction are different due to the double bond. Yet physically, they can be similar (eg. cyclohexane, cyclohexene) all exist as a liquid in room temperature