

## Question 17 (3 marks)

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

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Corresponding alkanes & alkenes ~~are~~ always contain the same no. of Carbon atoms as each other. This is why they have similar densities etc. & exist in the same state of matter. However, the double bond in alkenes makes them more much more reactive than their counterparts. Both are non-polar, so are insoluble in water. Alkanes are saturated, alkenes are unsaturated.