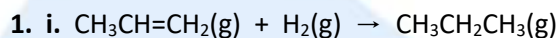
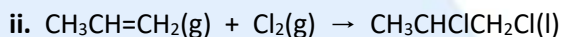


SL & HL Answers to Alkenes questions

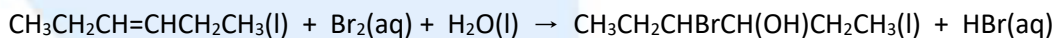


Product: propane.

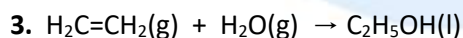


Product: 1,2-dichloropropane

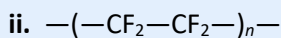
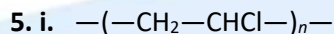
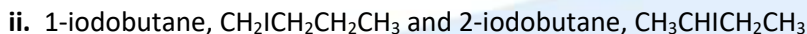
2. Add a small amount of bromine water to each substance. The bromine will dissolve in the hexane to form a yellow-brown solution but no reaction takes place. The hex-3-ene solution will decolourise the bromine water. This is due to the addition of the bromine water to the double bond of the hex-3-ene to form 4-bromohexan-3-ol.



(The IB would also accept 3,4-dibromohexane, $\text{CH}_3\text{CH}_2\text{CHBrCHBrCH}_2\text{CH}_3$, as the product since this would be formed if no water is present).



Product: 2-iodobutane



- iii. The very strong C-F bond is difficult to break **or** the structure is such that there is no room around each carbon atom for other atoms to approach.