

OCR A A-LEVEL ORGANIC CHEMISTRY

Complete Notes for
Modules 4 and 6

Alkenes 1

Chemistry

Alkenes are unsaturated hydrocarbons (contain a carbon-carbon double bond)



Alkenes have a high C=C to C-H bond ratio
C=C is 602 kJ mol⁻¹
C-H is 412 kJ mol⁻¹
Therefore a molecule with a C=C bond is more stable than a molecule with a C-H bond

Alkenes are unsaturated hydrocarbons (contain a carbon-carbon double bond)

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Polymers

Polymers are long chains of repeating units (monomers)

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Amines and Amides

Amines are compounds containing a nitrogen atom bonded to one or more hydrogen atoms

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Phenols

Phenols are compounds containing a benzene ring with a hydroxyl group attached

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