

CAIE Chemistry A-level

21: Organic Synthesis

Definitions

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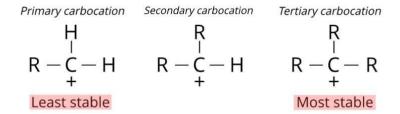


Definitions and Concepts for CAIE Chemistry A-level Organic Synthesis

By-product: A compound which is produced along with the desired product.

Functional group: An atom/group of atoms responsible for the characteristic reactions of a compound.

Major/minor products: Major and minor products are formed from electrophilic addition due to the relative stabilities of the primary/secondary/tertiary carbocation intermediates. The major product is formed from the most stable intermediate and the minor product is formed from the least stable intermediate.



Organic compound: A carbon-containing compound.

Synthesis: The process of combining different elements and compounds to build new molecules.

Synthesis maps: Provide a good summary of reactions in organic chemistry and show how multistep reactions can be used to get from one compound to another.





