

Module F324 Definitions

Topic 1 - Arenes

Electrophile	electron pair acceptor
Substitution	a reaction in which one atom or group is replaced by another atom or group

Topic 2 - Carbonyl Compounds/Carboxylic Acids and Esters

Nucleophile	lone pair donor
Addition	a reaction in which two molecules join to form one molecule
Hydrolysis	reaction with water to split up a molecule
Triglyceride	a tri-ester of glycerol and 3 fatty acids

Topic 3 - Nitrogen Compounds

Zwitter ion	an ion, typically found in amino acids, that has both a positive and a negative charge
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Topic 4 - Stereoisomerism and Organic Synthesis

Stereoisomers	same structural formula, different 3-dimensional arrangement
Chiral centre	a carbon atom bonded to four different atoms or groups
Optical isomers	non-superimposable mirror images about an organic chiral centre
Optical activity	ability of chiral molecules to rotate plane-polarised light

Topic 5 - Polymerisation

Condensation polymerisation	reaction between two different types of molecule to give a polymer accompanied by the loss of a small molecule such as water
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Topic 6 - Analysis

Retention time	the characteristic time it takes for a particular substance to pass through the system under set conditions
R _f value	distance travelled by solute/distance travelled by solvent