

OCR (B) Chemistry A-Level

CD4 - Reaction Mechanisms

Flashcards

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What does the mechanism for the nucleophilic addition of CN^- look like?



What is a condensation reaction?



What is a condensation reaction?

A reaction where two molecules react to form one larger molecule, forming a bond between them. A small molecule, usually water is released.



What is a hydrolysis reaction?



What is a hydrolysis reaction?

A reaction that breaks a compound into two, using water. This reforms their previous functional groups using the -H and -OH from the water.



What is an elimination reaction?



What is an elimination reaction?

A reaction where a group or pair of atoms are removed from a molecule.



What is an addition reaction?



What is an addition reaction?

- A reaction whereby one molecule reacts with another to form a larger molecule. There are no other products.
- Atom economy is 100%.



What is a substitution reaction?



What is a substitution reaction?

A chemical reaction whereby one functional group in a molecule is replaced by another functional group.



What is oxidation?



What is oxidation?

- Oxidation is loss of electrons.
- If something is oxidised, its oxidation state increases.



What is reduction?



What is reduction?

- Reduction is gain of electrons.
- If something is reduced, its oxidation state decreases.

