

OCR (B) Chemistry A-Level CD4 - Reaction Mechanisms Flashcards

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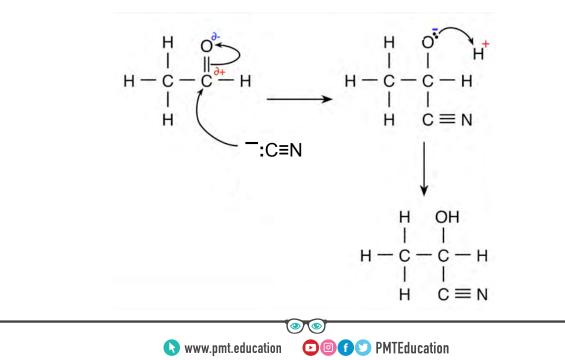
What does the mechanism for the nucleophilic addition of CN⁻ look like?







What 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.



