

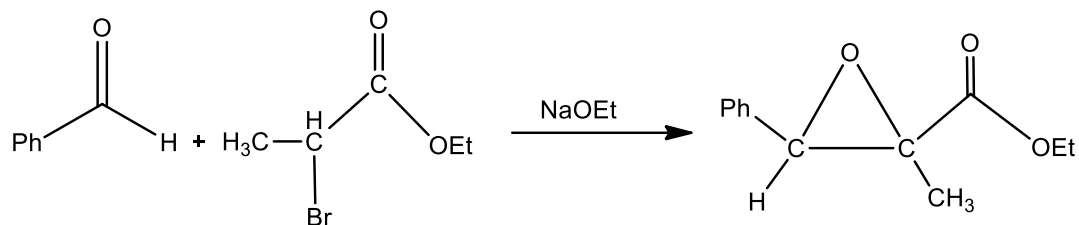
Study Notes On Darzen Reaction



Darzen Reaction

In the darzen reaction the condensation of a carbonyl compound with an α -haloester takes place in presence of base which results in the formation of an α - β epoxy ester.

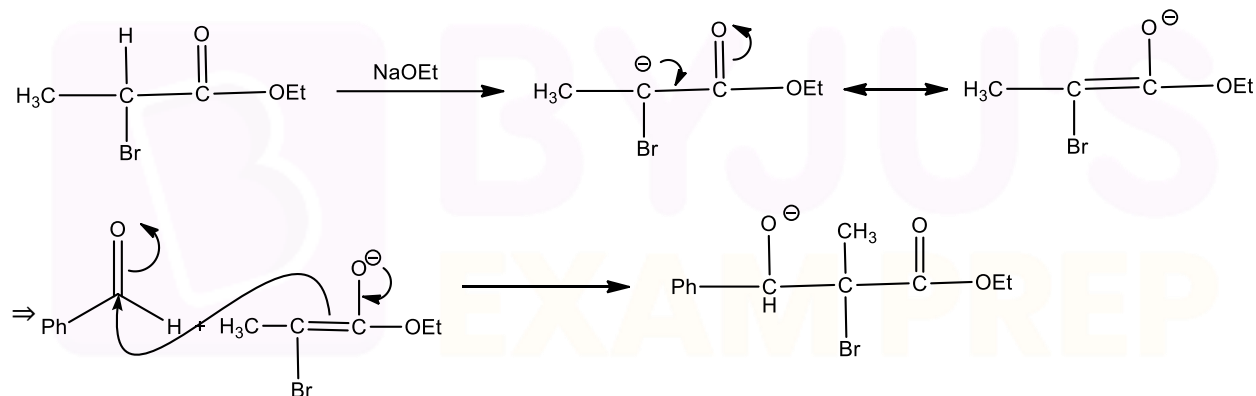
General Reaction-



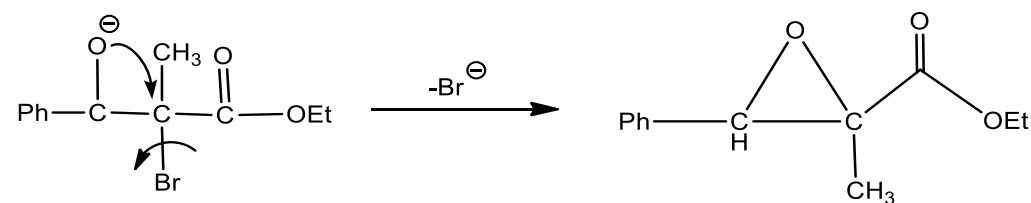
Reaction Mechanism-

Step-1: This step involves the formation of enolate of α -halo ester followed by the attack at the electrophilic carbonyl carbon.

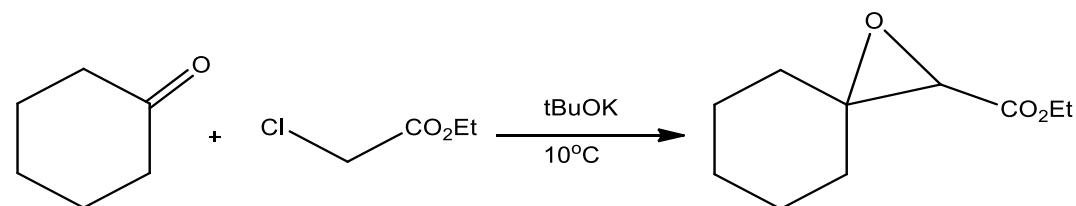
⇒



Step-2: It involves the elimination of halide ion by the intramolecular attack of alkoxide ion by S_N2 mechanism, which results in the formation of α - β epoxy ester.



Stereochemistry: The attacking alkoxide group and leaving group must be anti-to each other.



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