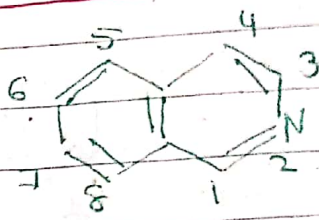


ISOQUINOLINE



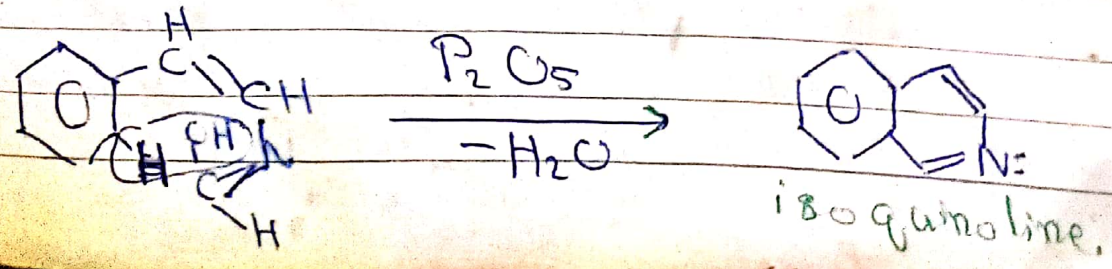
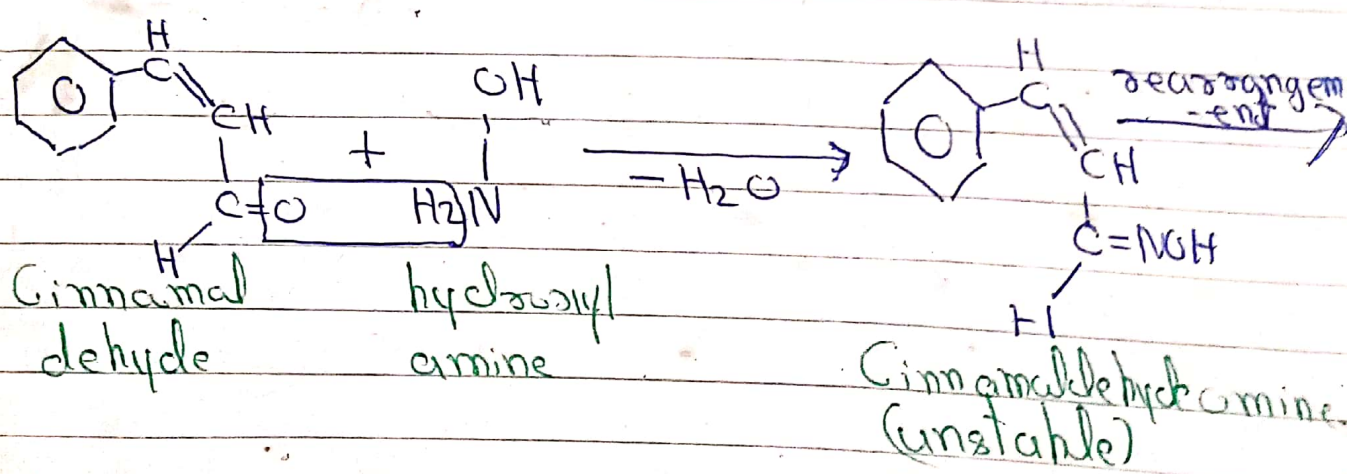
Isoquinoline unit is formed when benzene ring fused to the β - γ position of a pyridine ring. It is isomeric with quinoline. It also occurs in coal tar and bone oil.

ISOLATION-

Isoquinoline can be prepared by the following methods:

(i) From Cinnamaldehyde-

It involves the condensation of Cinnamaldehydes with hydroxylamine. The oxime formed is heated with P_2O_5 to form isoquinoline.



Imp

(2) By Bischler Napieralski synthesis:-

In this reaction 2 phenyl ethyl amine is first treated with formyl chloride in the presence of a base to form N-formyl 2 phenyl ethyl amine. This product when heated with P_2O_5 in pyridine to give 3,4 dihydro isoquinoline which on oxidation with selenium yields isoquinoline.

