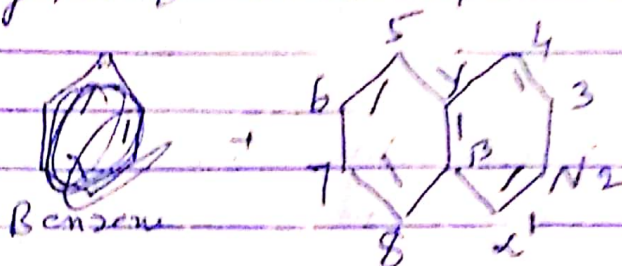


ISOQUINOLINE

Isoquinoline is a aromatic compound of ten ring atoms in which one atom is nitrogen. It consists of a benzene ring and a pyridine ring. When pyridine ring at β, γ position fused with benzene ring, isoquinoline is formed.



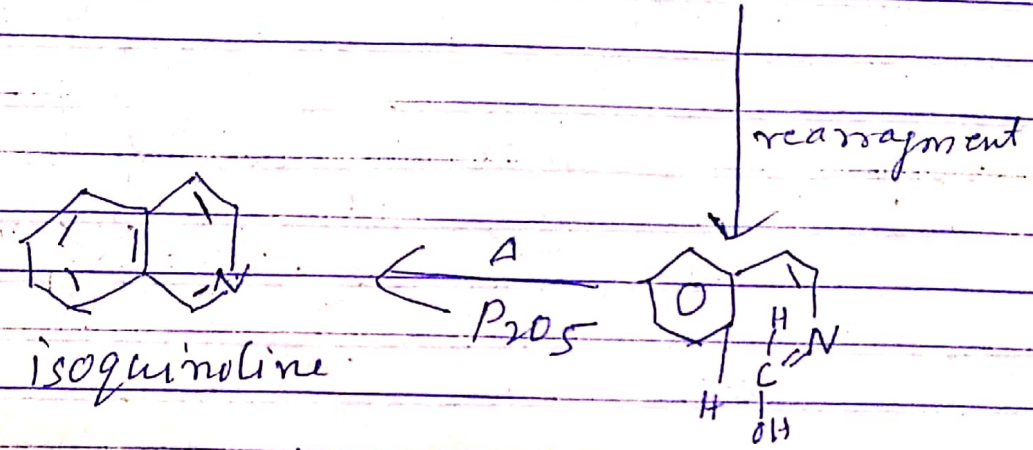
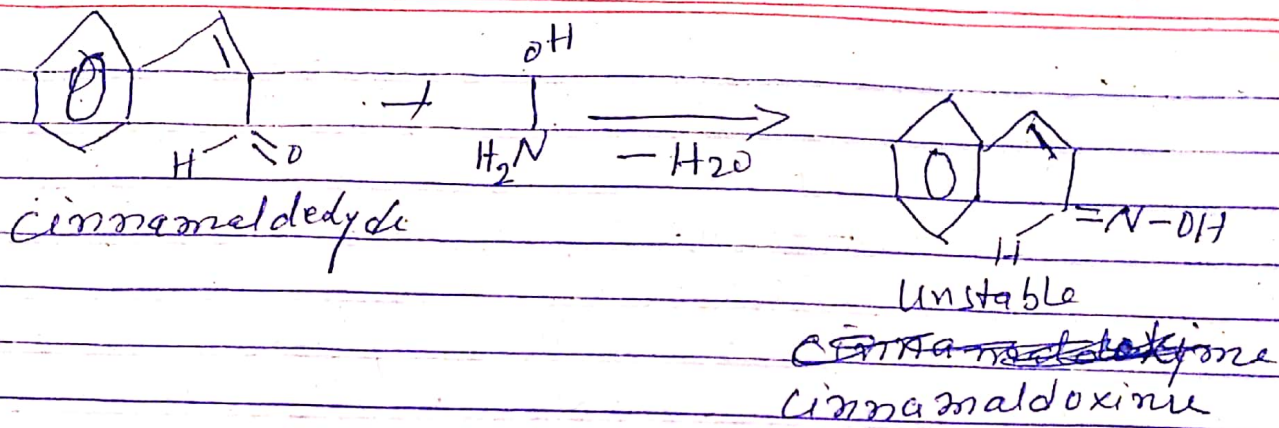
It found in coal-tar and bone oil and it is found as main structure of many alkaloids like papaverine and morphine.

The numbering of atoms of ring is not started from hetero atom (N) but it is started from adjacent atom to the benzene ring.

Synthesis of isoquinoline

1) From cinnamaldehyde - It involve

condensation of cinnamaldehyde with hydroxylamine to form oxime. This oxime is heated with phosphorus pentoxide to yield isoquinoline.



2) Bischler-Napieralski synthesis

