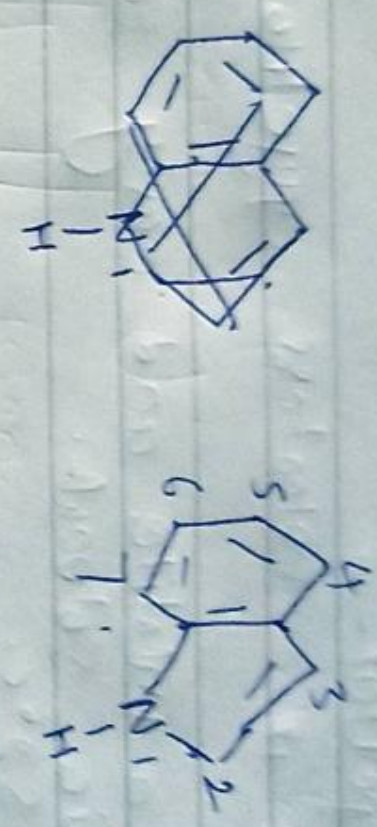


Ans-3. Struc - of Indole

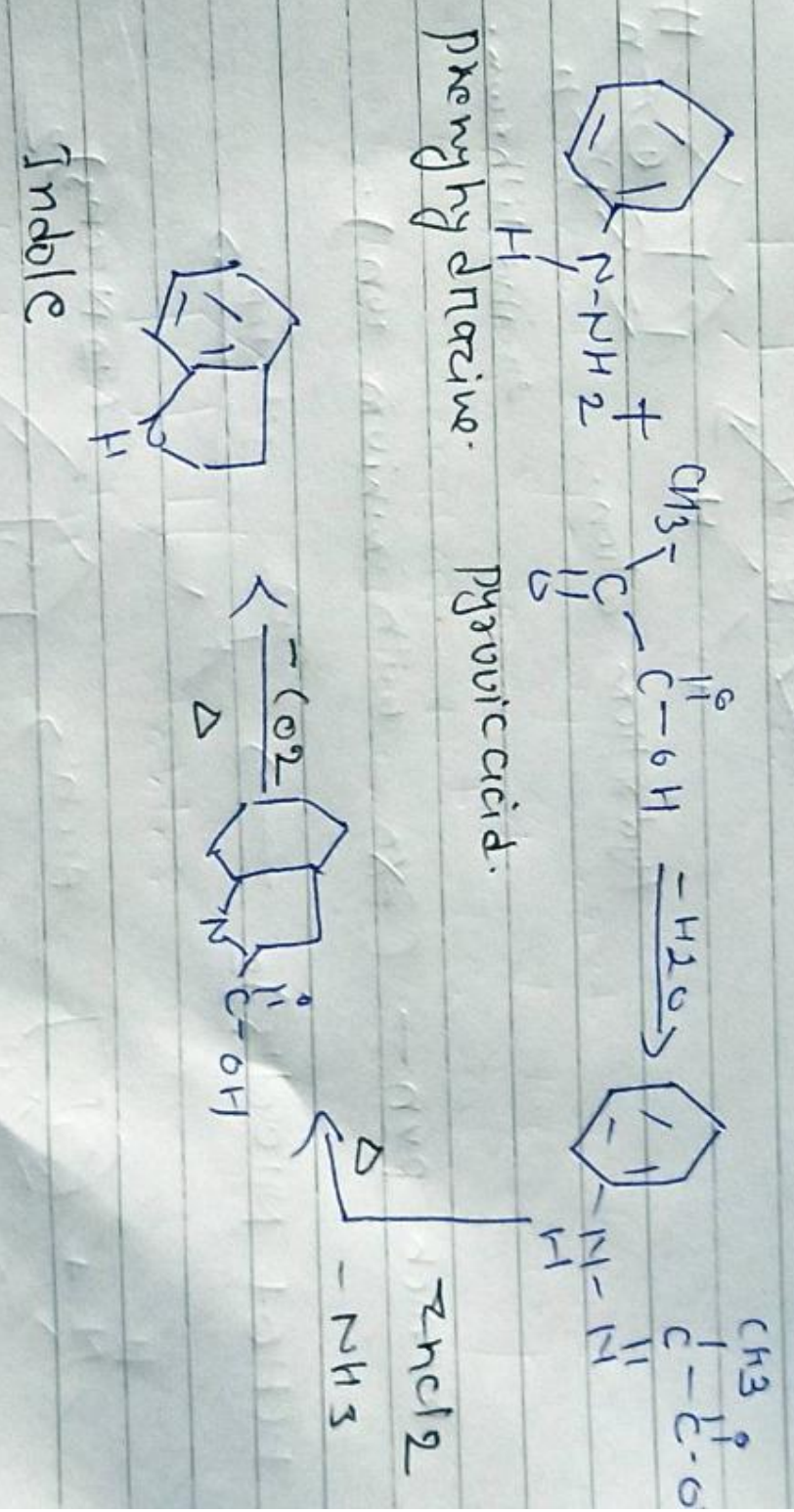


• Indole consist of a benzene ring fused to a pyrrole ring.

α, β, position of a pyrrole ring.

method and preparation -

1) Fischer / Indole Synthesis -



→ prehydrolysis reaction with in the presence of H₂O and dehydration then make carboxylic substituted indole in the presence

4

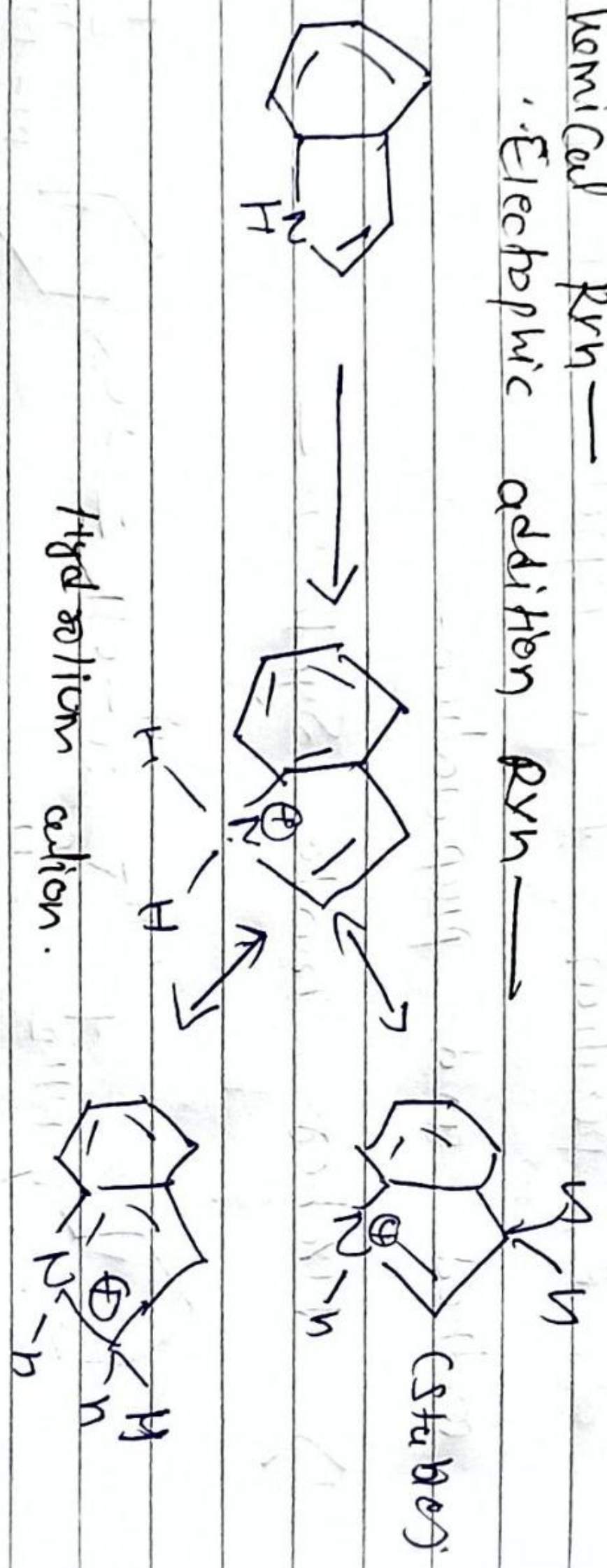
→ finally remove $-CO_2$ from Indole.

Physical properties—

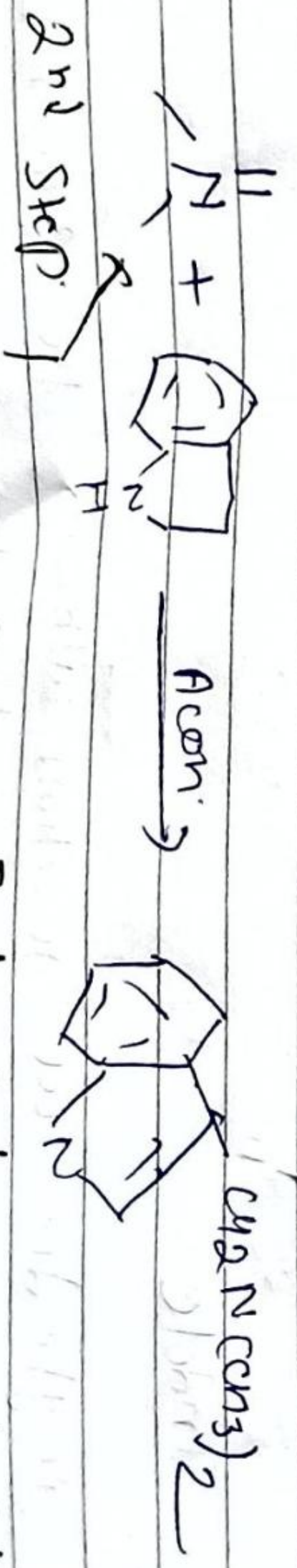
- Indole is colorless crystalline solid
- It is a volatile and easily soluble in organic solvent.
- m.p. $52^\circ C$.

Chemical rxn—

Electrophilic addition rxn—



Mannich rxn— (rxn with iminium ion).



iminium ion

