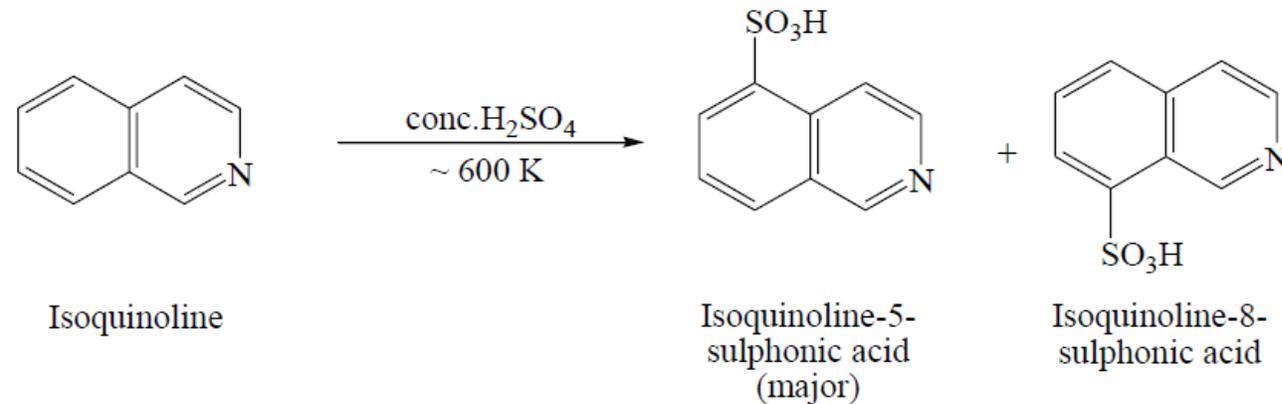
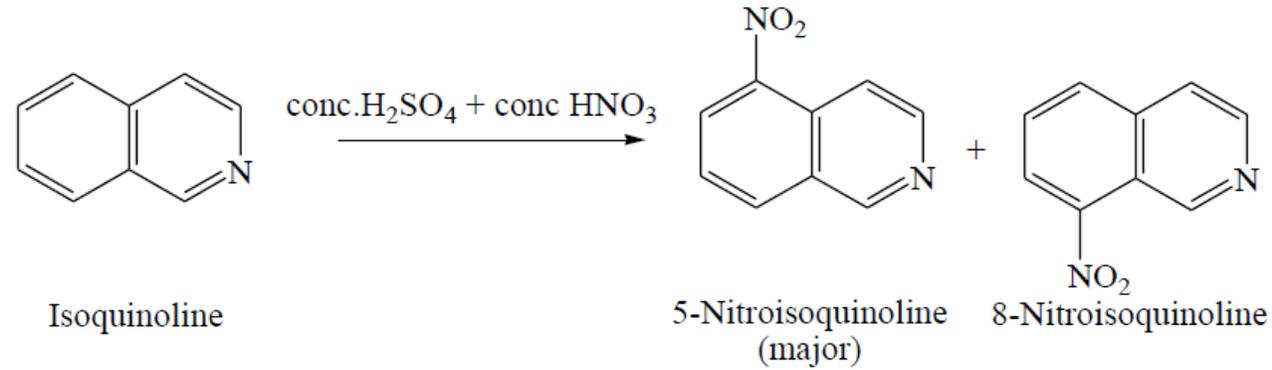
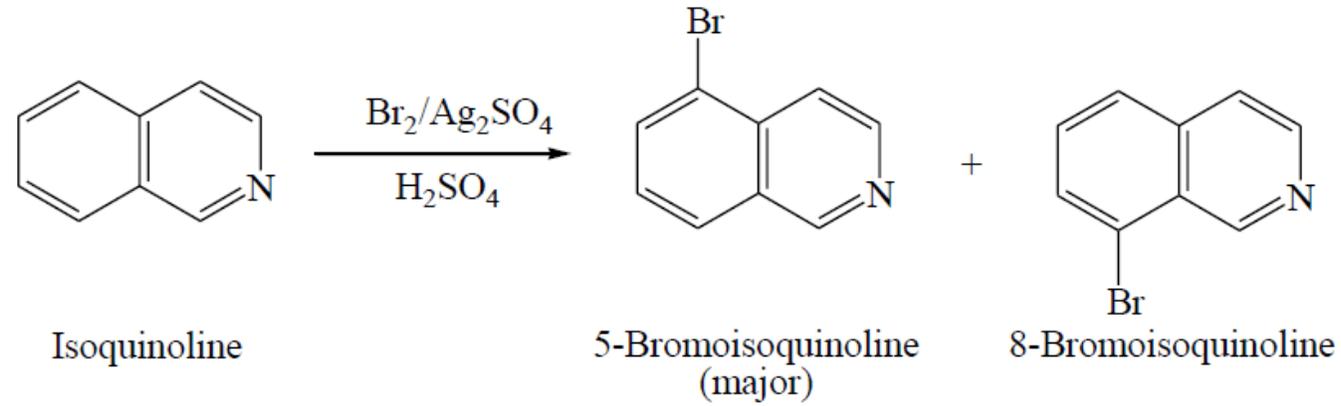
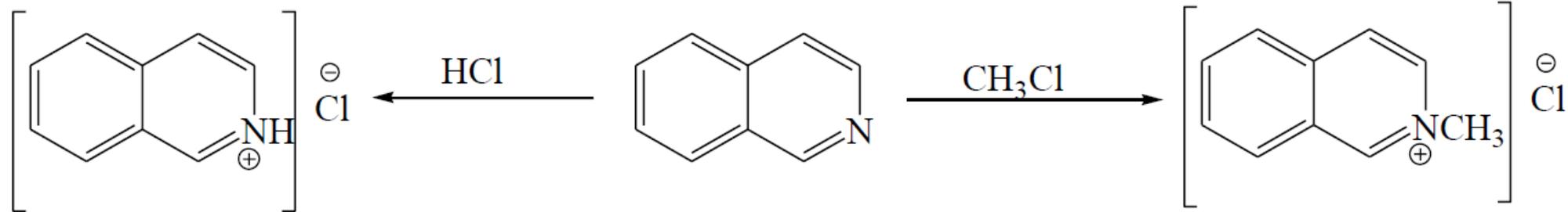


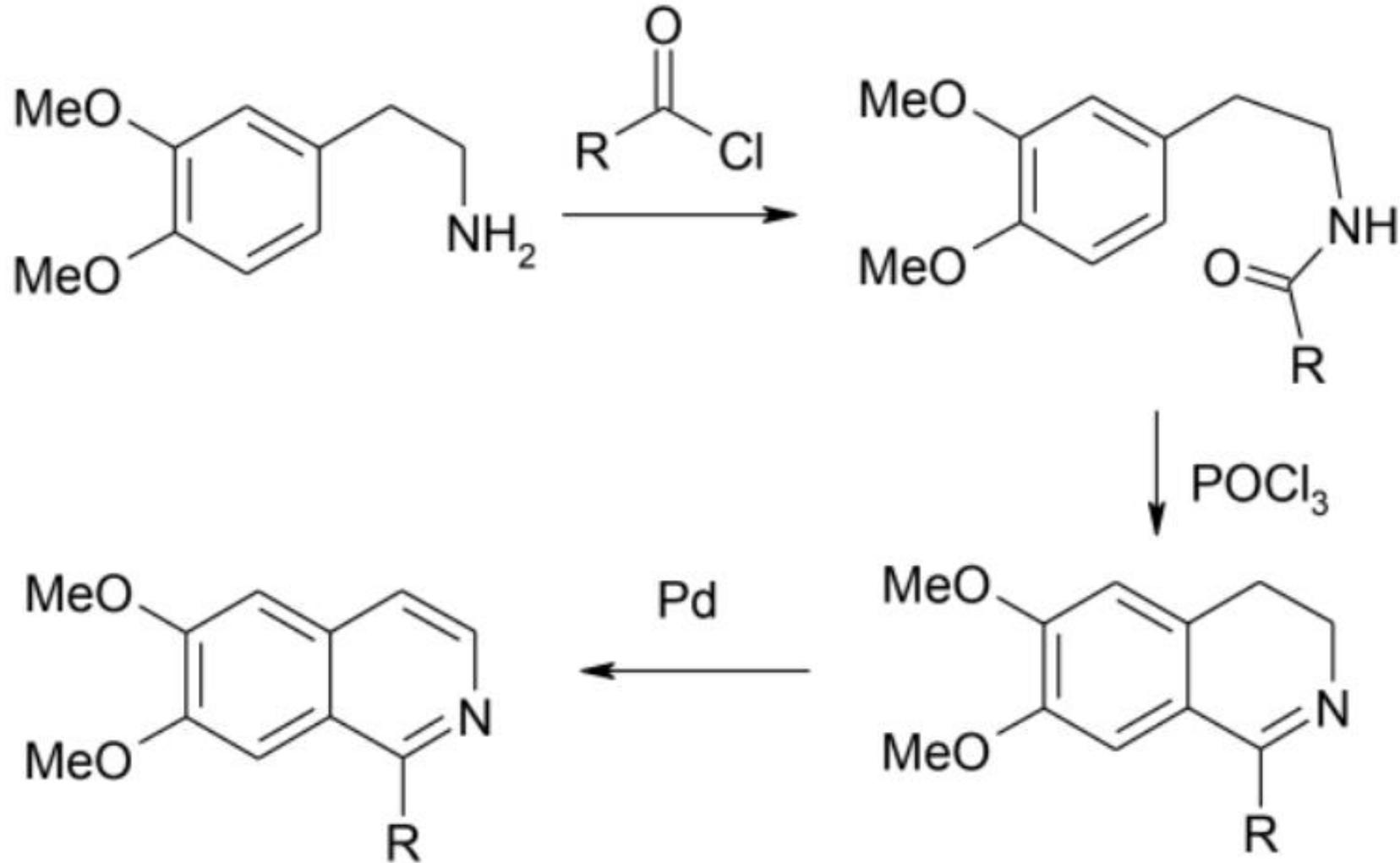
الايزوكوينولين

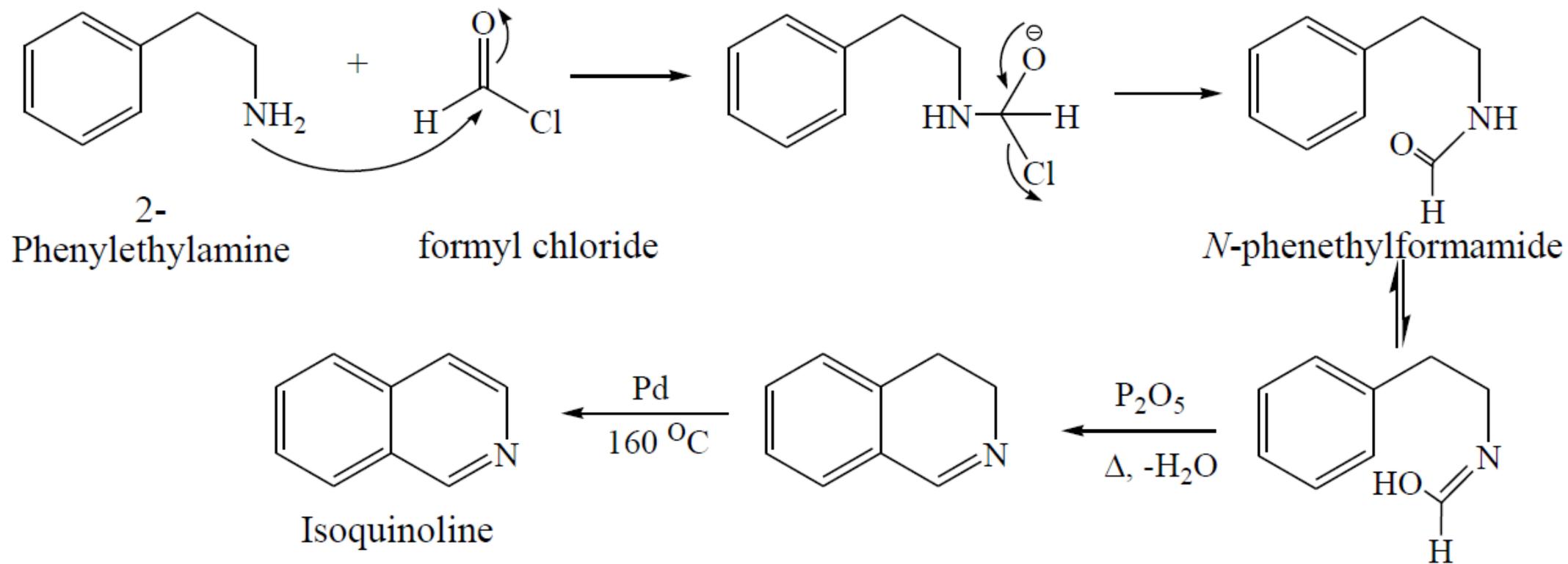




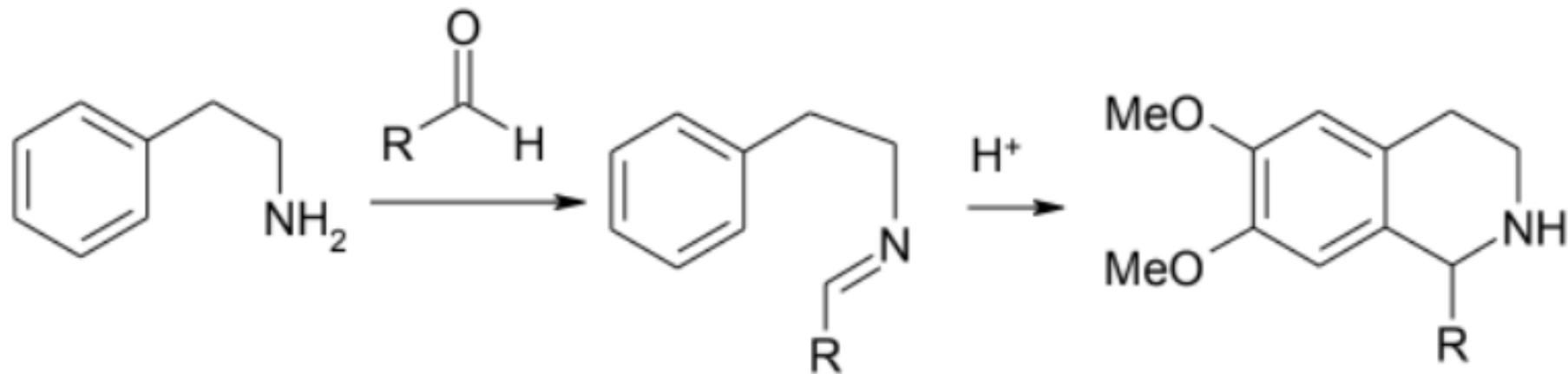
تحضير الايزوكوينولين

1) Bischler-Napierlaski

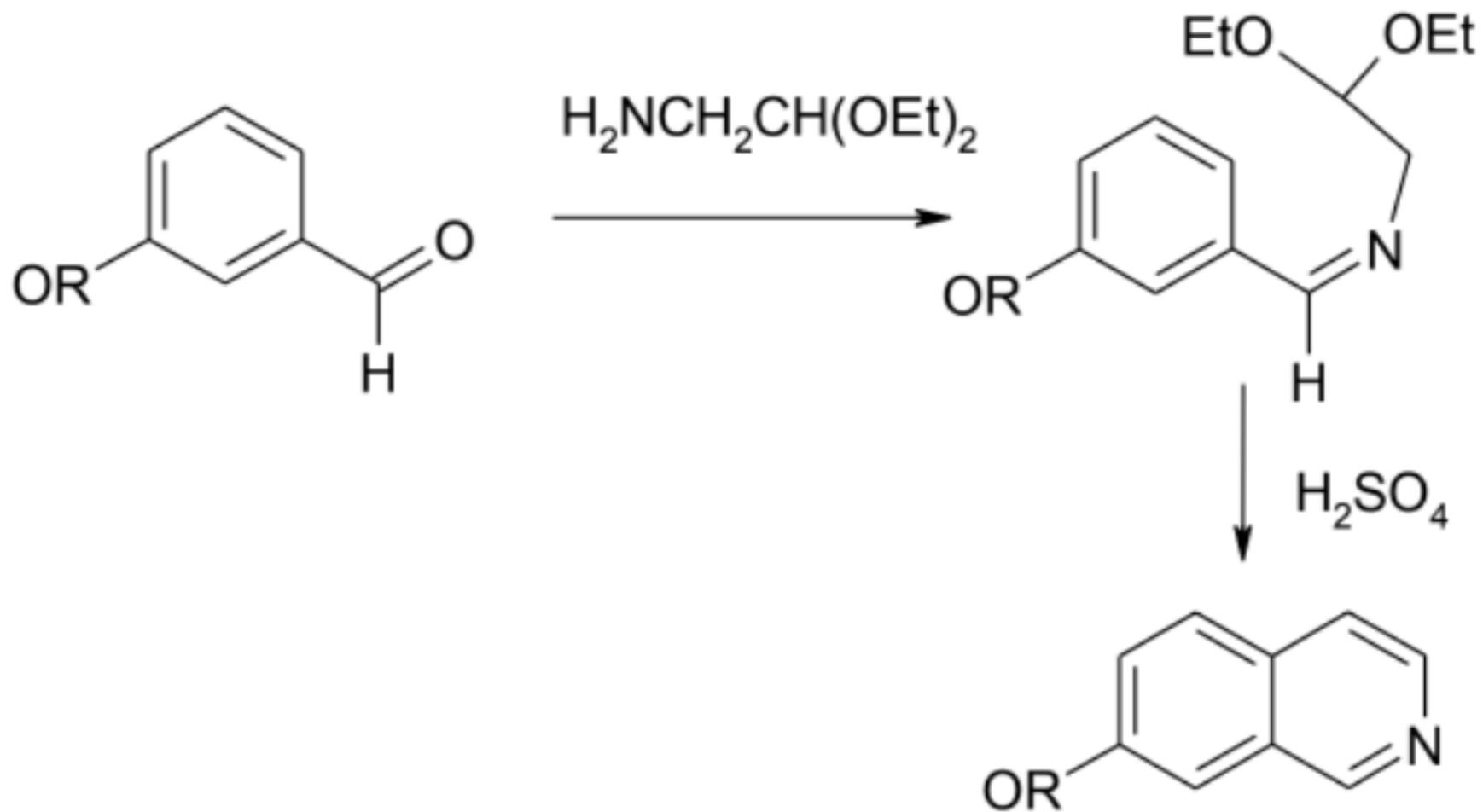


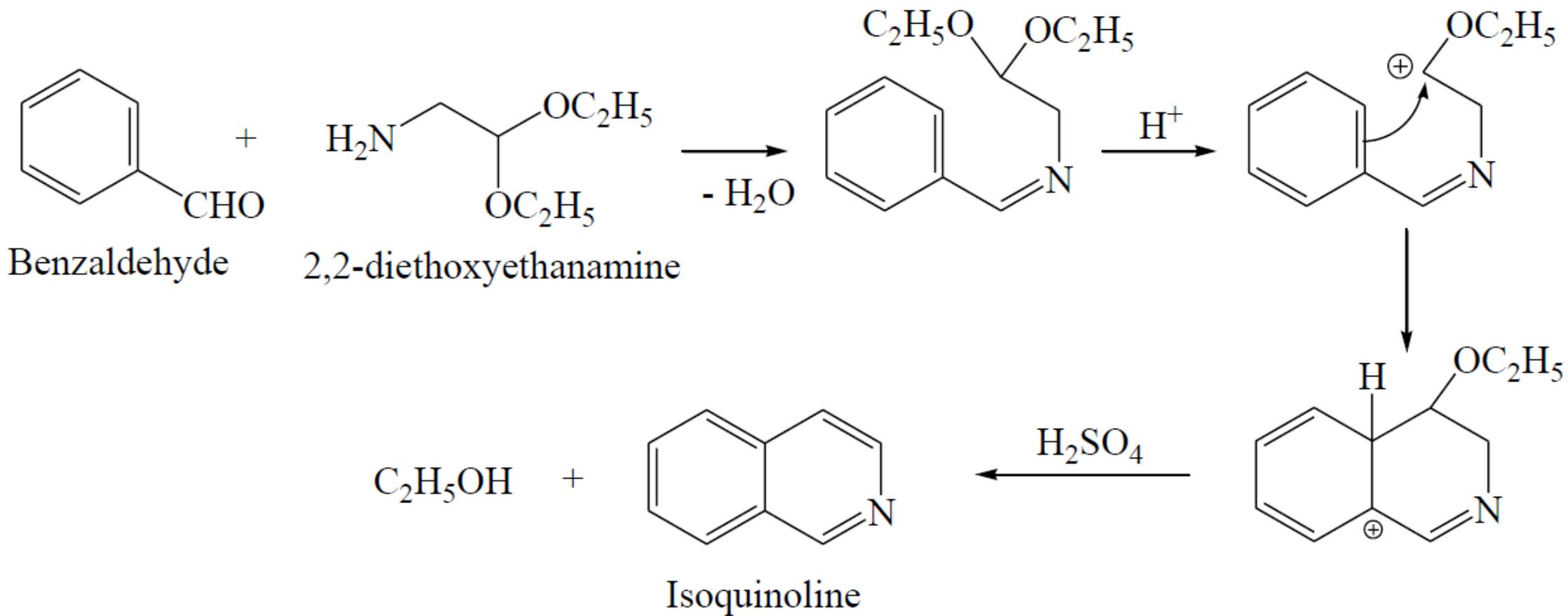


2) Pictet-Spengler Synthesis



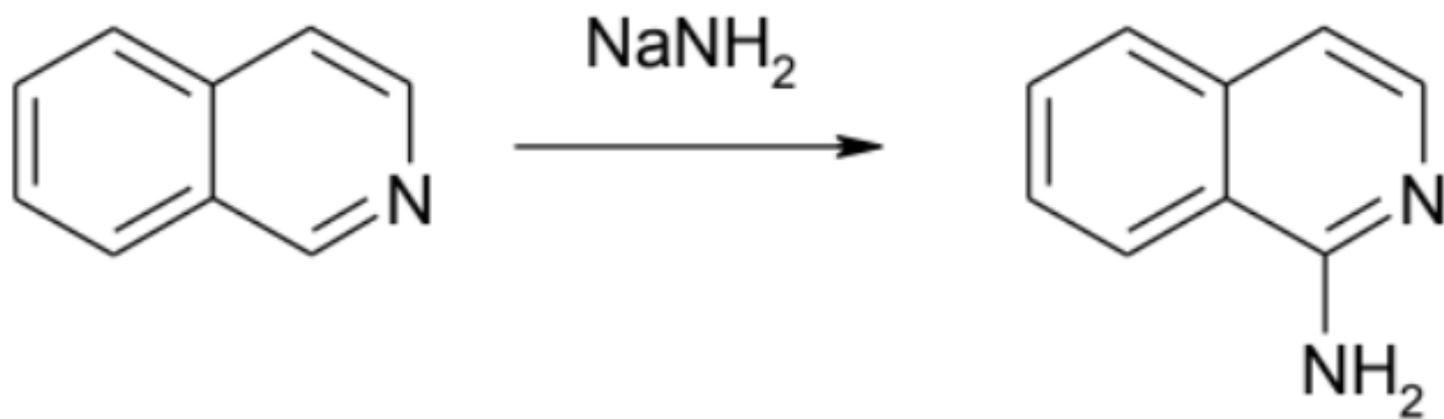
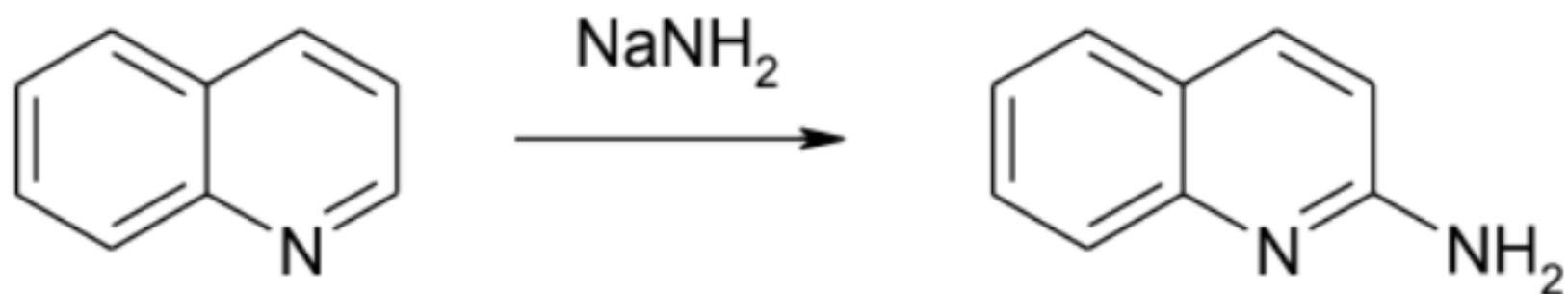
3) Pomeranz-Fritsch Synthesis

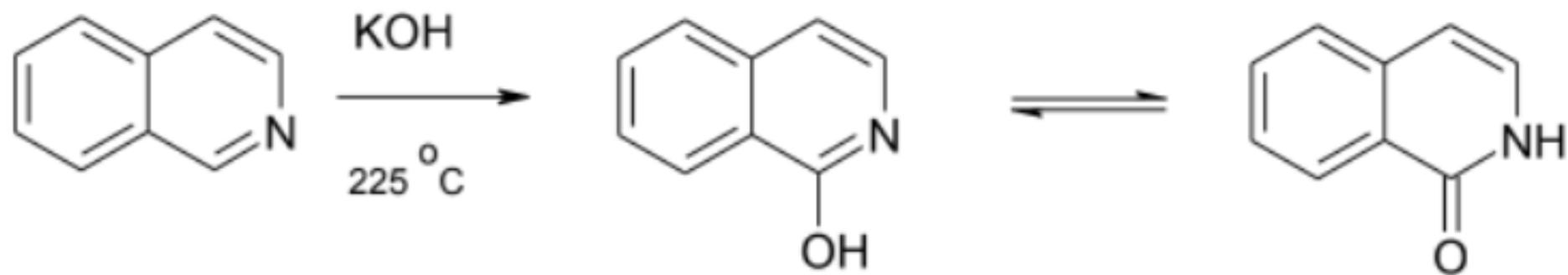
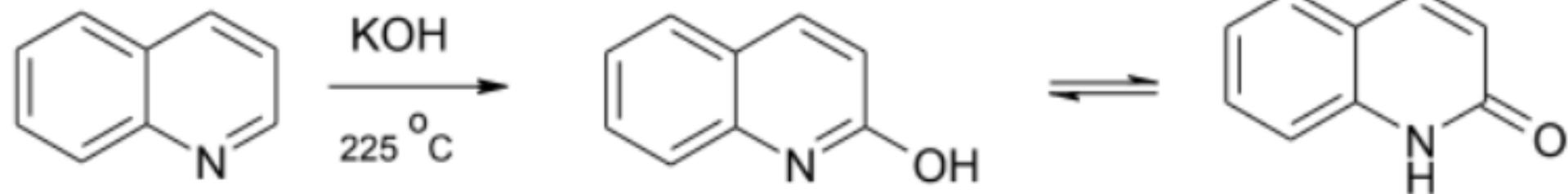




Chemistry of Quinoline and Isoquinoline

Nucleophilic Substitution (ChiChibabin Reaction)





5.3.6 Nucleophilic substitution

The displacement of chloride from the 2- and 4-positions of quinoline and from the 1-position of isoquinoline by nucleophiles such as alkoxides, thiophenoxide, and secondary amines takes place readily by an addition-elimination mechanism. Two examples of selective displacement of chloride by carbanions are shown in Fig. 5.43. It is possible to displace chloride from the 3-position of isoquinolines under more vigorous conditions.

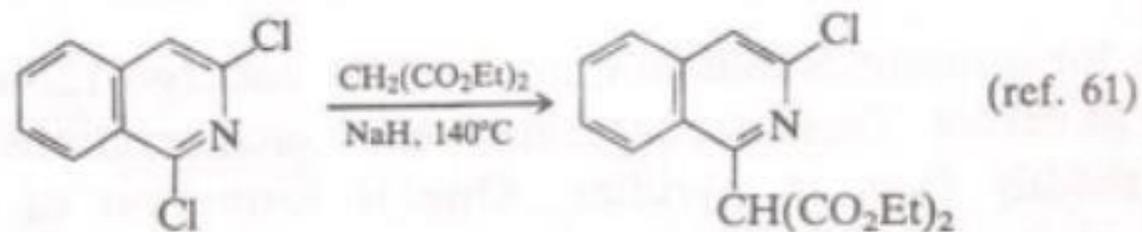
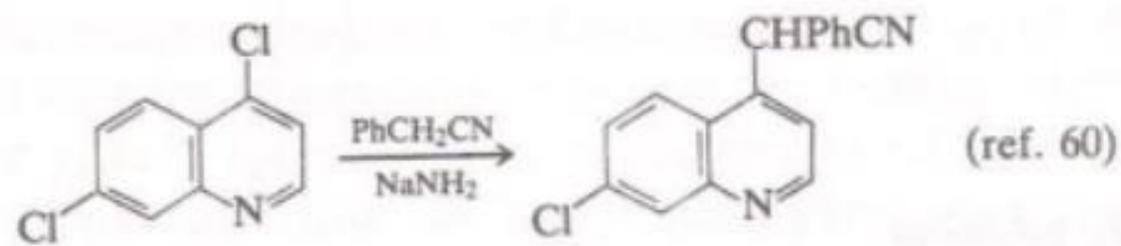


Fig. 5.43 Selective displacement of chloride.