

**B.Sc. Semester-IV
Core Course-IX (CC-IX)
Organic Chemistry-III**



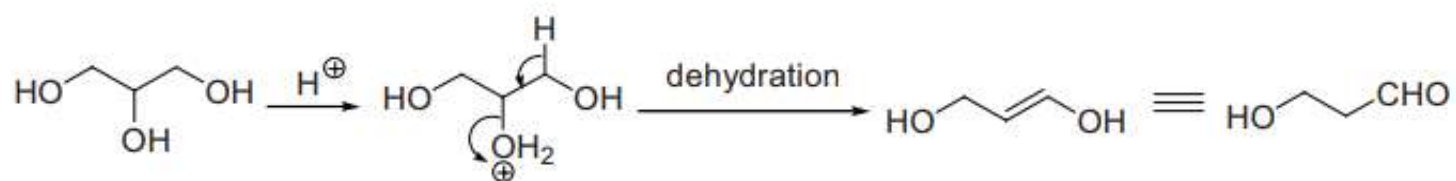
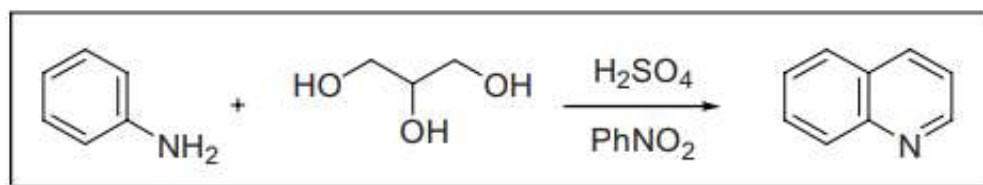
III. Heterocyclic Compounds 7. Skraup Quinoline Synthesis



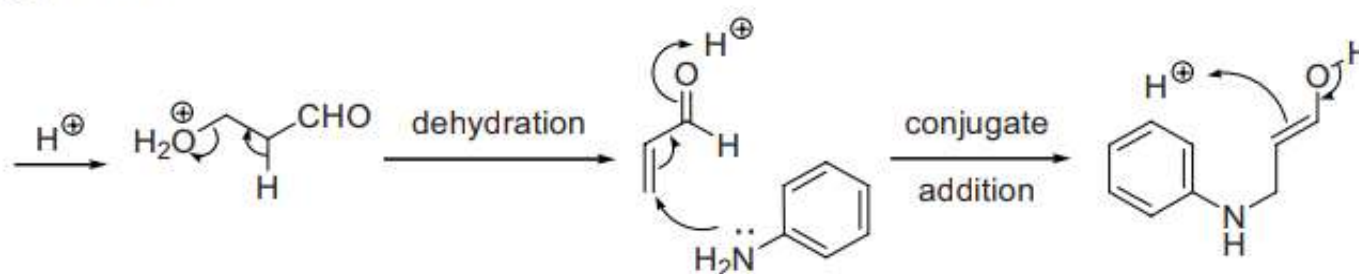
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Skraup quinoline synthesis

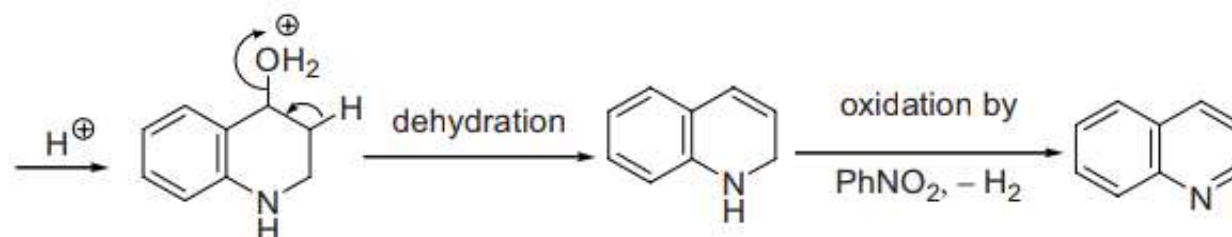
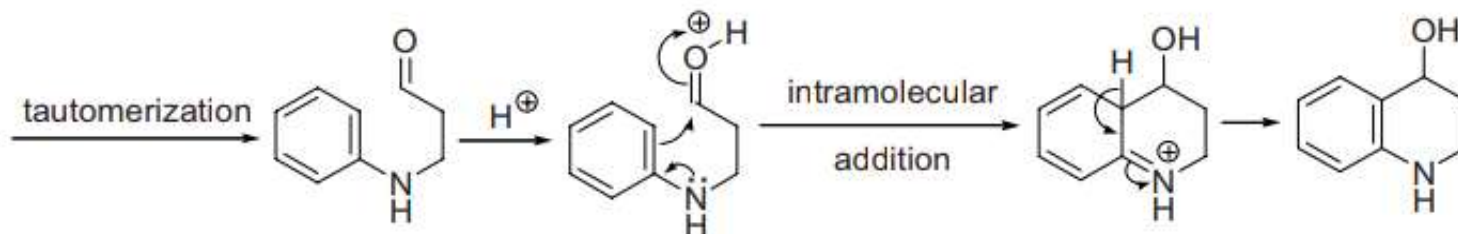
Quinoline from aniline, glycerol, sulfuric acid and oxidizing agent (e.g. PhNO₂).



glycerol

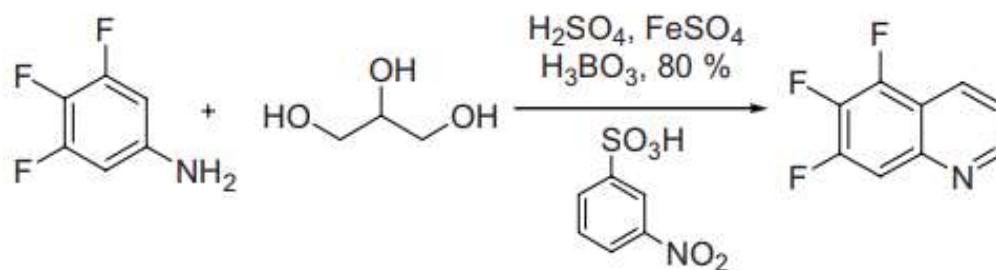


acrolein

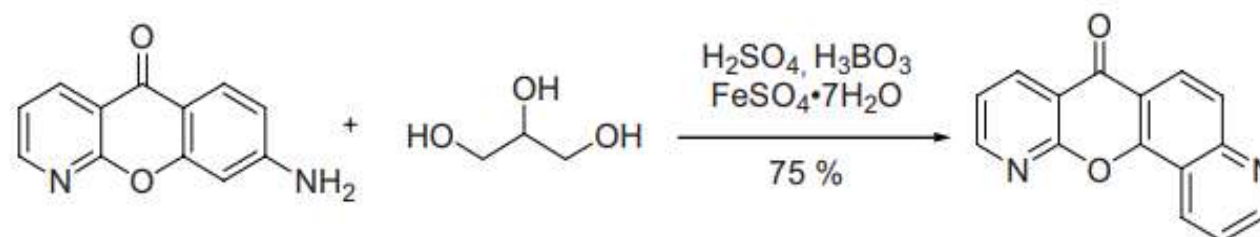


For an alternative mechanism, see that of the Doebner–von Miller reaction (page 196).

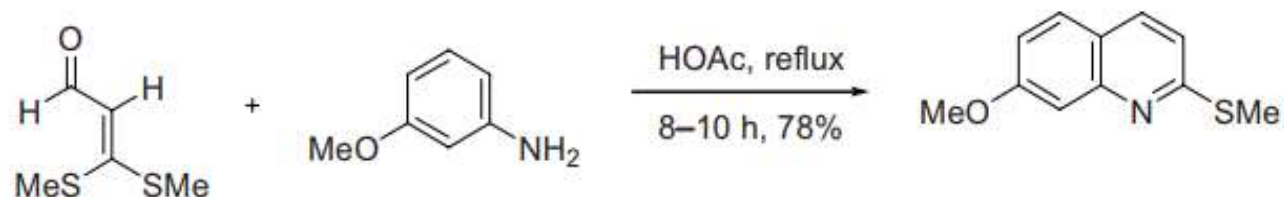
Example 1⁵



Example 2⁶



Example 3, A modified Skraup quinoline synthesis⁸



References

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