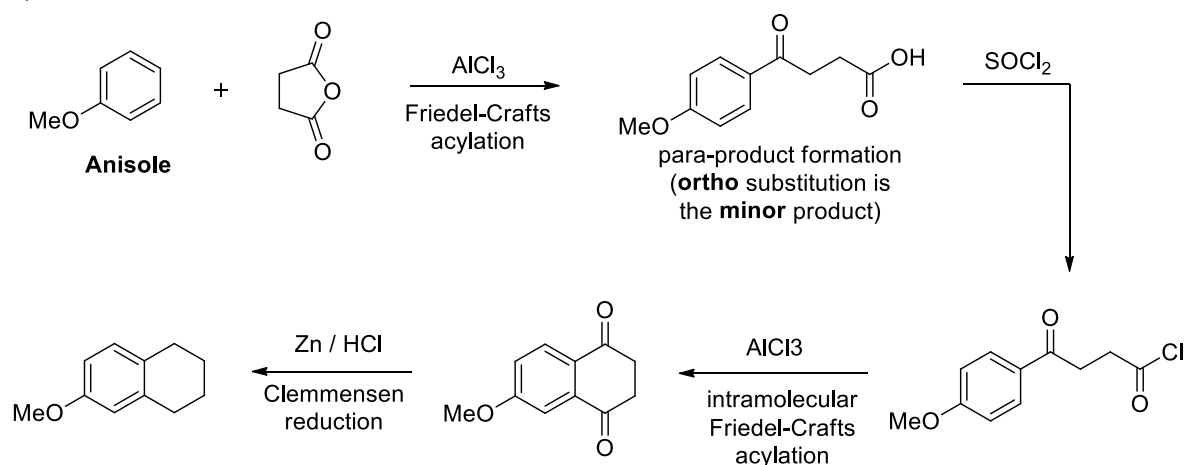


FRO-II 2021 QUESTIONS OF THE WEEK 3 - SOLUTIONS

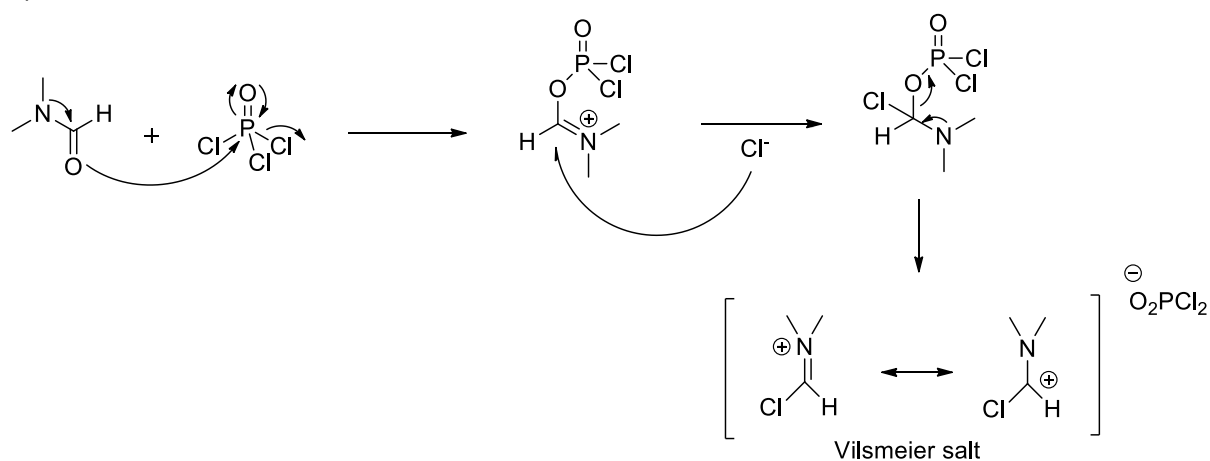
1)



2) Starting material **B** reacts faster in this electrophilic aromatic substitution because the methoxy group ($-\text{OMe}$) stabilizes the positive charge in the transition state. (+M effect).

3)

a) Formation of the Vilsmeier salt



b) Formylation

