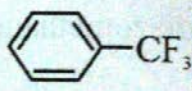


Answer on Question #42909 - Chemistry - Organic Chemistry

Question:

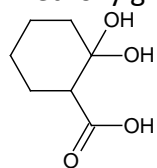
90. End product of the following reaction is :

91. The major product of the reaction of  with electrophile, E^+ , is :

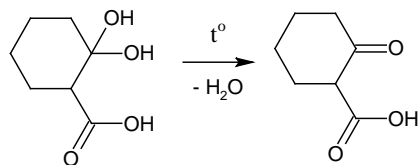
Answer:

Correct answer for question 90 is **(a)**.

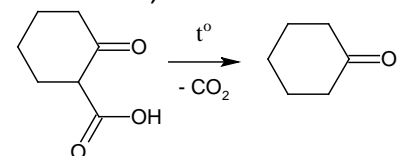
On the first stage acidic hydrolysis occurs and product (c) is formed, afterwards hydrolysis of methoxy groups occurs resulting in following structure



This structure is unstable when heated and is dehydrated at first:

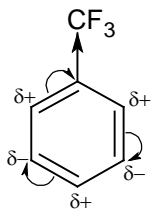


afterwards, if heat is sufficient, decarboxylation occurs:



Correct answer for question 91 is **(b)**, because of the following.

CF_3 proves $-I$ effect and carbons of the aromatic rings acquire partial charges:



Metha-positions are partially negatively charged, so E^+ will attack these positions resulting in product (b) formation.