

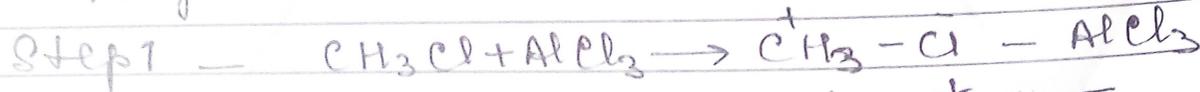
Name Reaction

DATE:

Wittig Craft Reaction

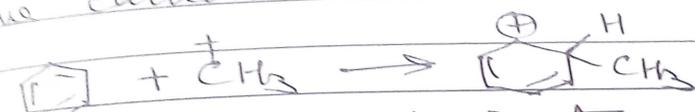
The reaction of alkyl halide with benzene in presence of Lewis acid e.g. $AlCl_3$ is known as F.C. Reaction. It can be divided into alkylation and acylation.

Alkylation — The alkylation of benzene with primary alkyl halide with the formation of polar addition compound between $AlCl_3$ and $R-Cl$. The function of $AlCl_3$ is to supply electron deficient species as follows

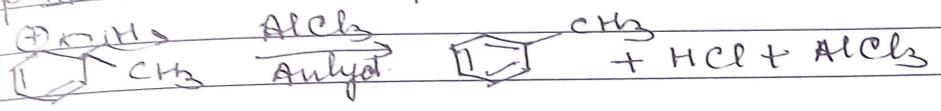


The electrophile attacks benzene ring to

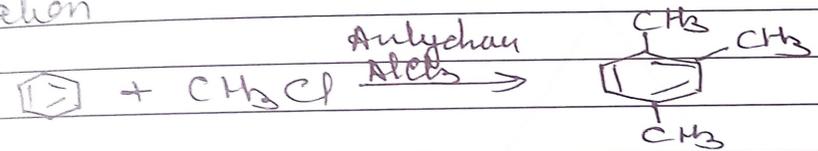
DATE: give carbonium ion.



Step III - Loss of Proton

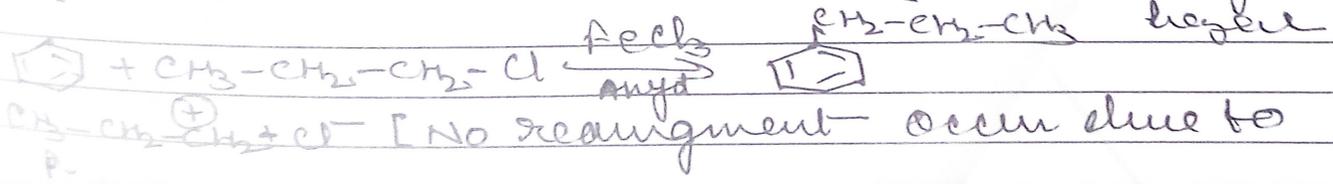
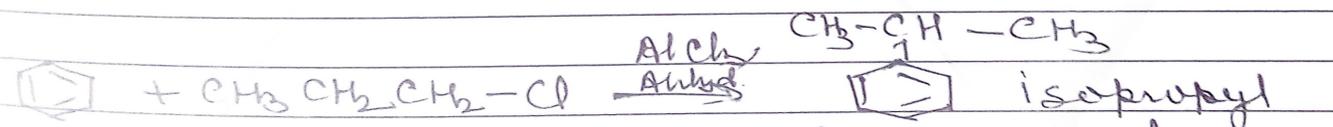


Drawback \Rightarrow Alkyl group is -o. -p directing they further cause substitution by polyalkylation



at sometimes rearrangement product is obtained

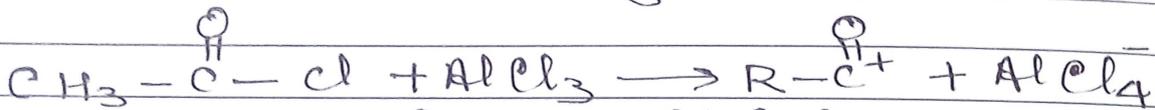
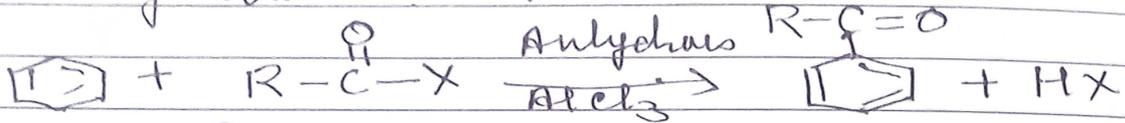
Alylation of n-propyl chloride gives isopropyl chloride benzene



DATE: _____

$FeCl_3$ is not so strong.

F.C. Acylation — $R-\overset{\overset{O}{\parallel}}{C}^+$



There is no carbocation is formed

