

Aldehydes Ketones And Carboxylic

By-Dr.Rinky Acids 14/12/2020

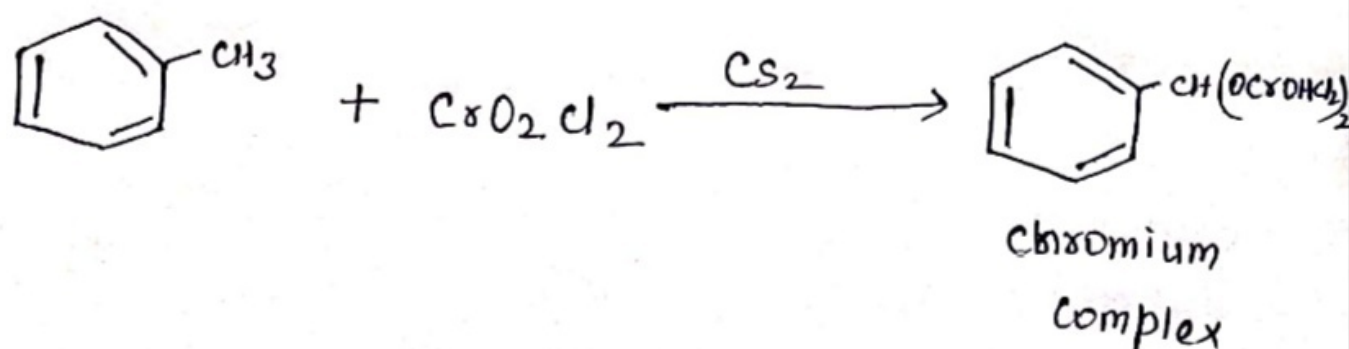
Chemistry , Class-XII , Unit-12 , Lecture-5

Preparation of Aldehydes Continued...

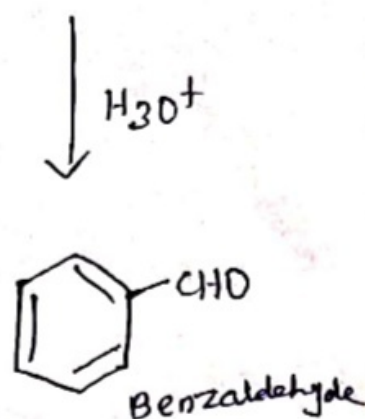
3. From Hydrocarbons

(i) By oxidation of methyl benzene :-

Chromyl chloride (CrO_2Cl_2) oxidises methyl group to a chromium complex, which on hydrolysis gives corresponding benzaldehyde.



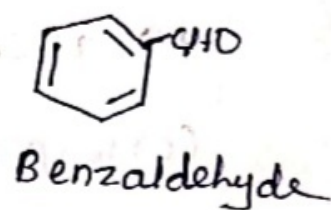
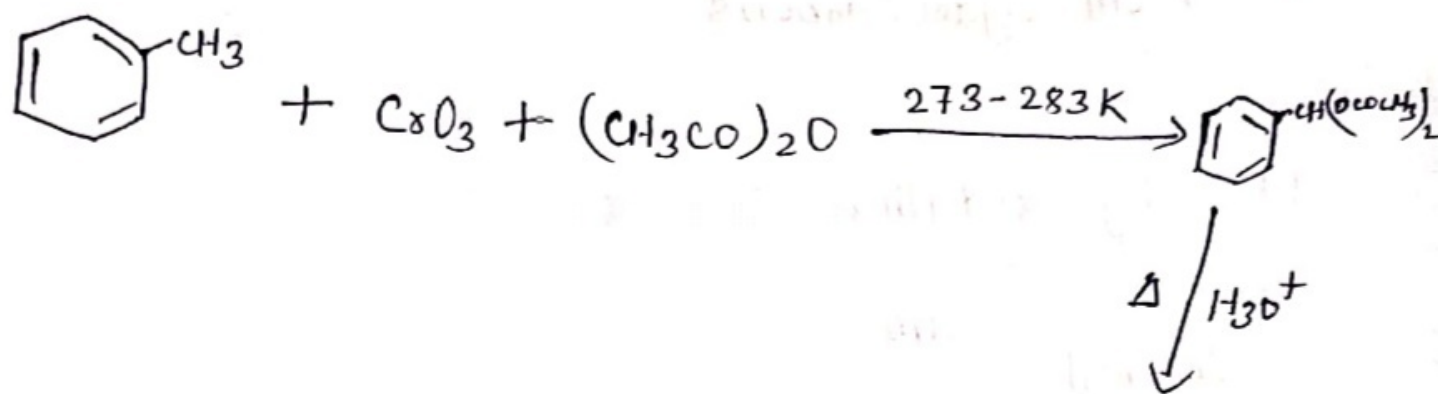
* This reaction is called Etard Reaction.



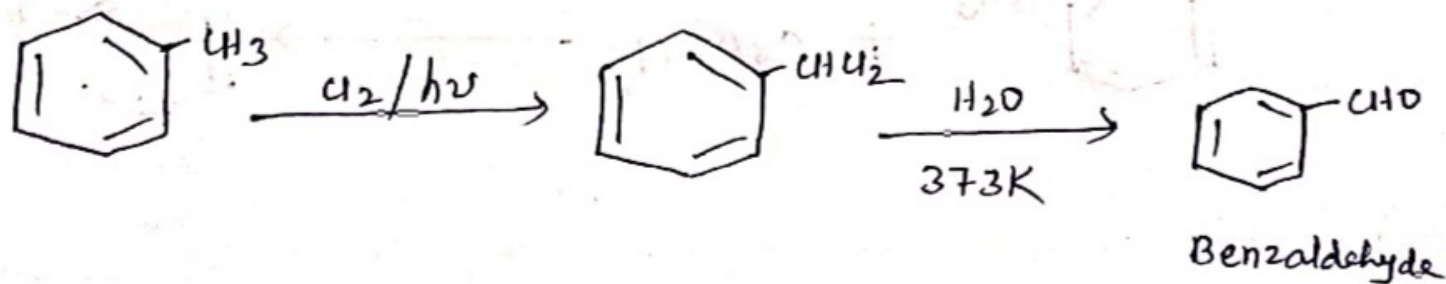
2.

* Toluene or substituted toluene is converted to benzylidene diacetate on treating with chromic oxide in acetic anhydride.

* The benzylidene diacetate can be hydrolysed to corresponding benzaldehyde with aqueous acid.

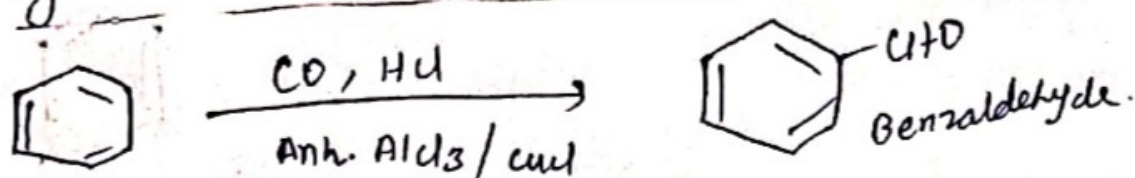


ii) By side chain chlorination followed by hydrolysis :-



* This is commercial method of manufacture of benzaldehyde.

iii) By Gatterman-Koch reaction



Contd.