

CHEMISTRY STUDY MATERIALS FOR CLASS 12 (NCERT BASED REVISION NOTES OF CHAPTER -10)

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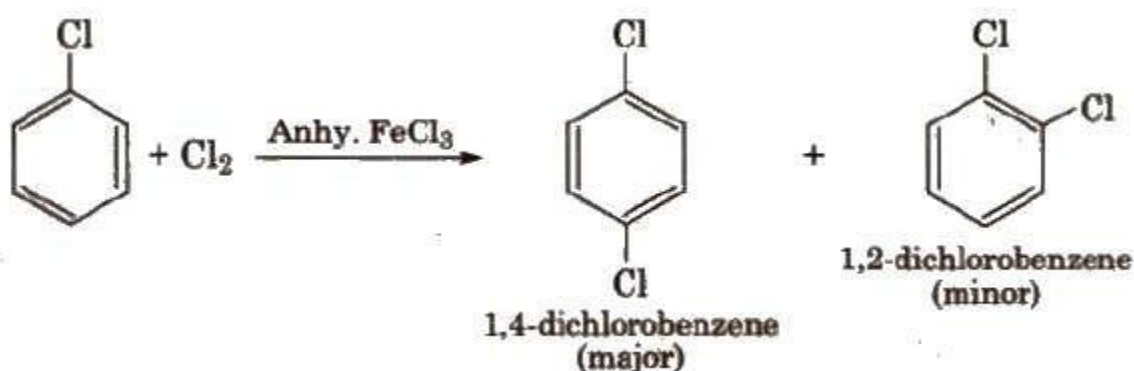
DATE:- 14/03/2021

Haloalkanes and Haloarenes

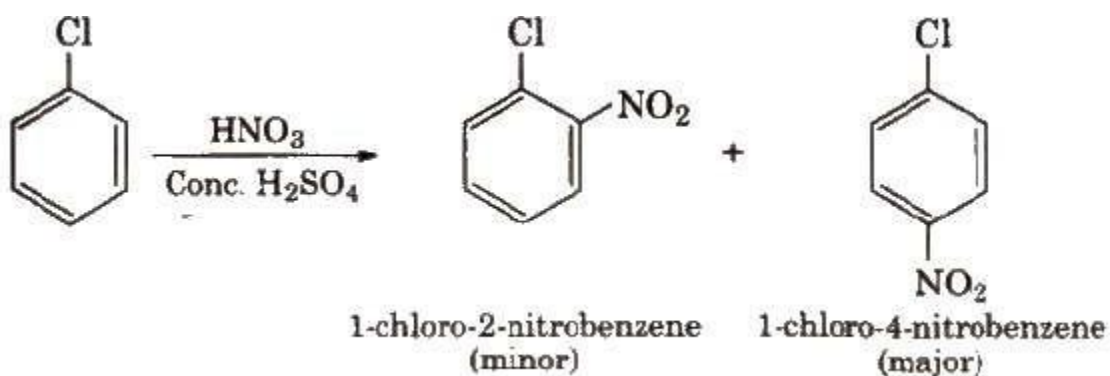
1. Electrophilic Substitution Reactions

Halogens are deactivating but O, p-directing. Thus, chlorination, nitration, sulphonation and Friedel Craft's reaction give a mixture of o- and P- chloro substituted derivatives.

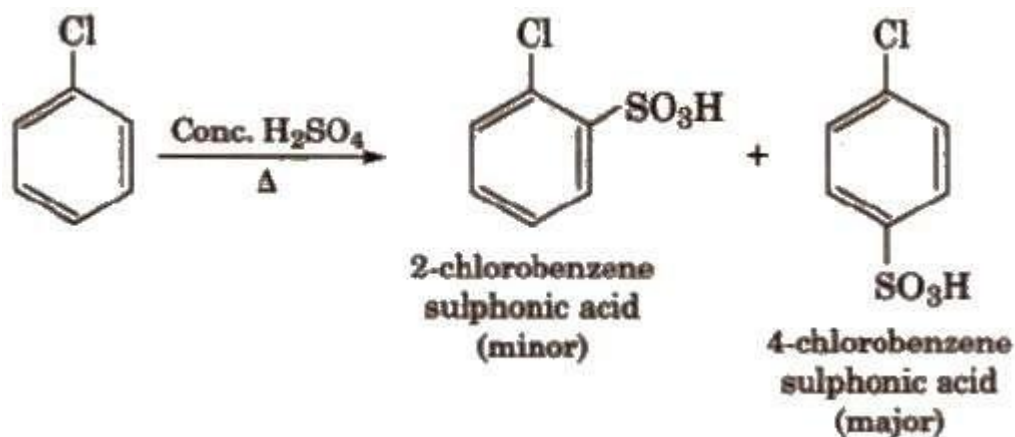
(i) Halogenation



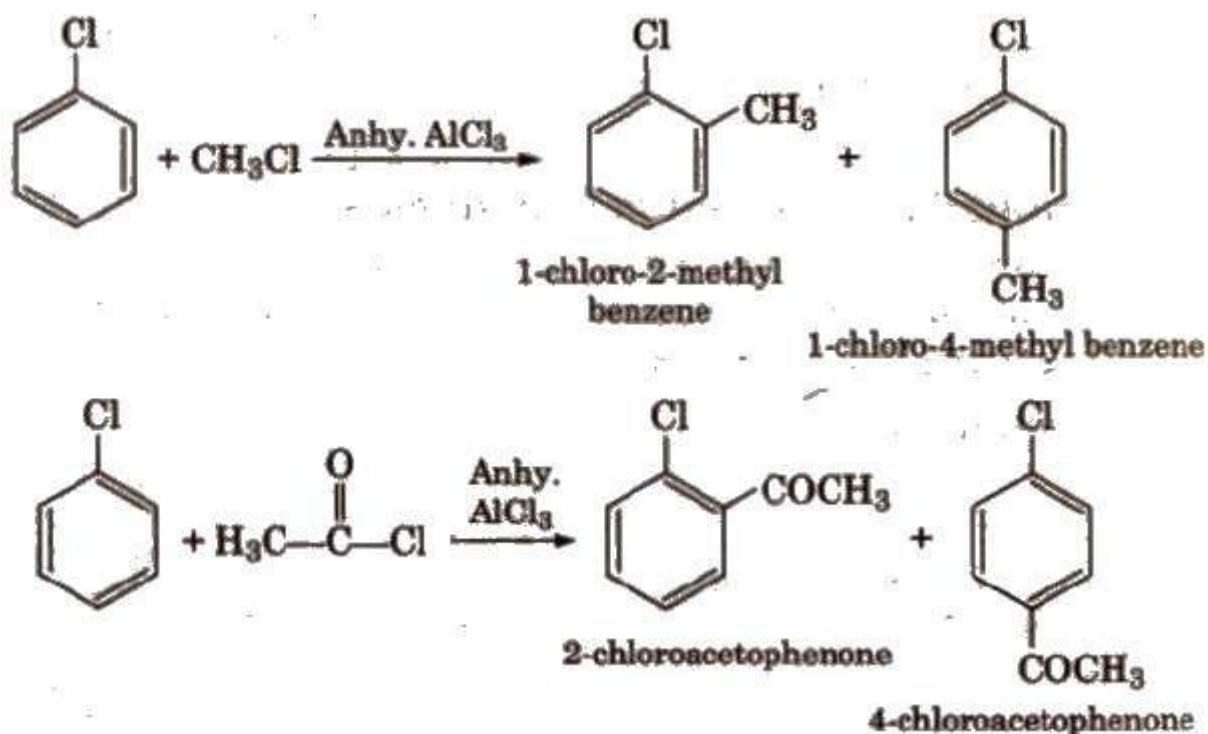
(ii) Nitration



(iii) Sulphonation

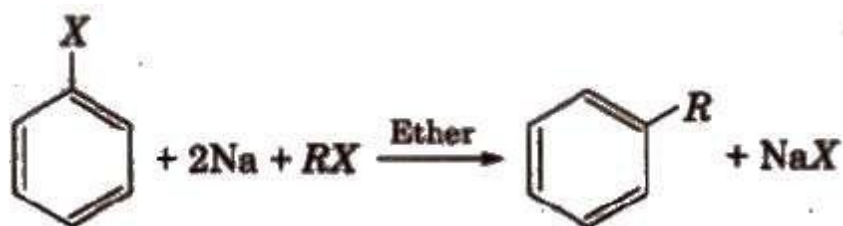


Friedel-Crafts reaction

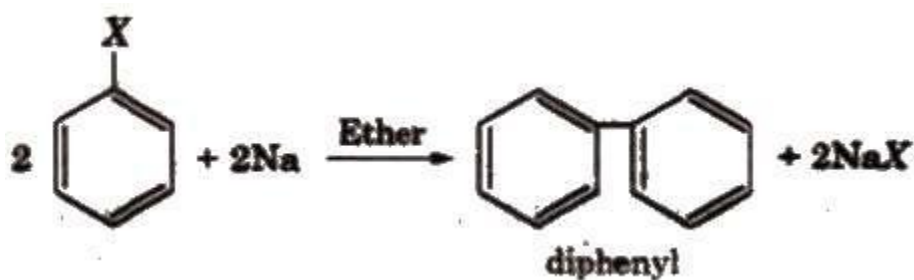


Reaction with Metals

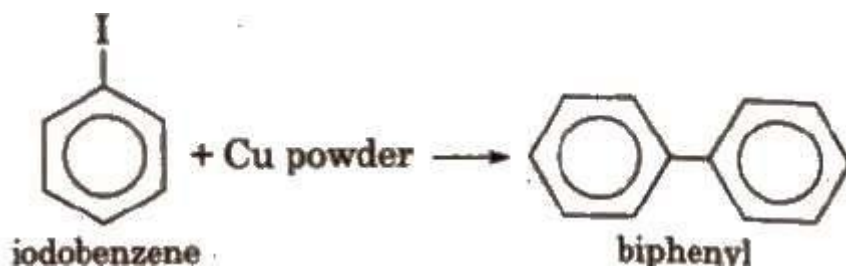
(i) Wurtz Fittig reaction



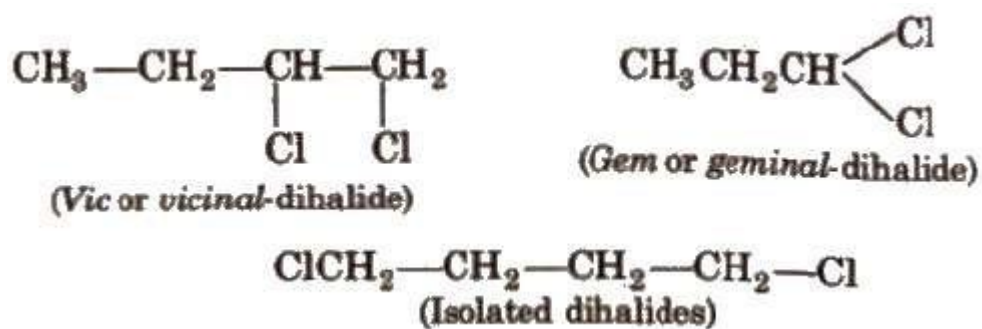
(ii) Fitting reaction



(iii) Ullmann reaction



Dihalogen Derivatives



Dichloromethane (CH_2Cl_2) is widely used as a solvent, as a propellant in aerosols. Direct contact of dichloromethane in humans causes intense burning and milk redness of the skin.
