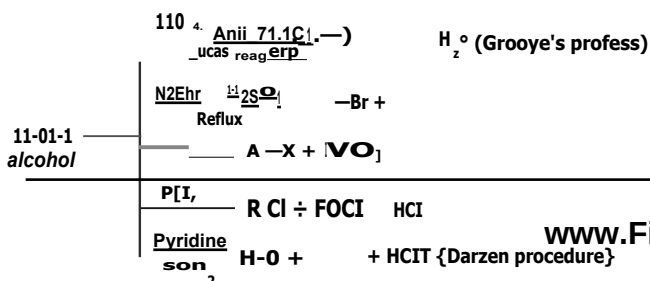


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HALOALKANES AND HALOARENES

11-01-1 **alcohol** RepapItion of Ha loQIIkanes

F mrn A.IcohGis



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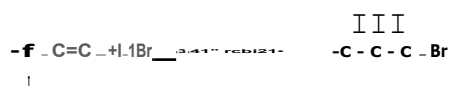
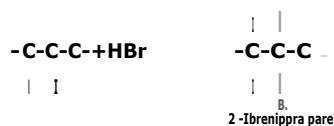
UOISSIUPVMOSUOV

Free Radical Halogenation of Alkanes



Cl

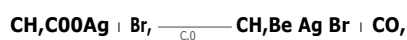
Addition of hydrogen Halides on Alkenes



Halogen Exchange method ;

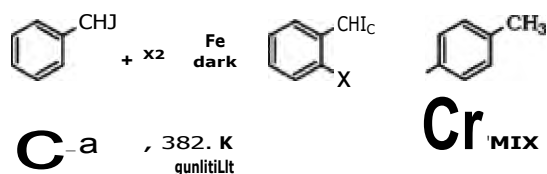


Hunsdiecker Reaction

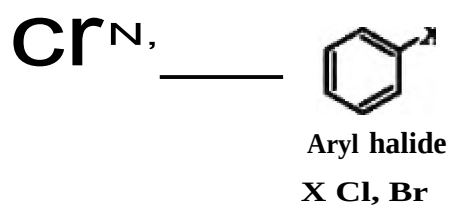
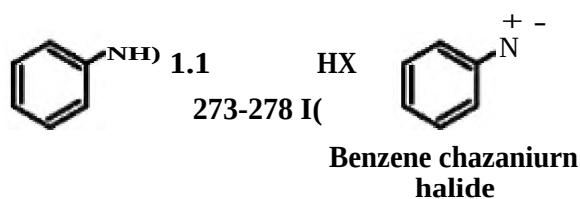


Preparation of haloarenes

(a) Electrophilic Substitution reaction

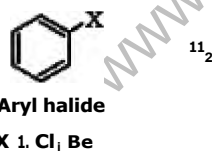


Sandmeyer's reaction

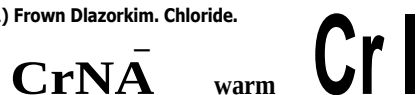


Gattermann reaction

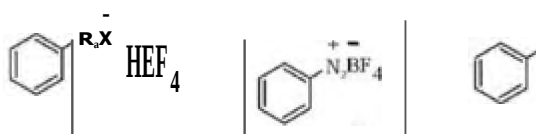
4 -



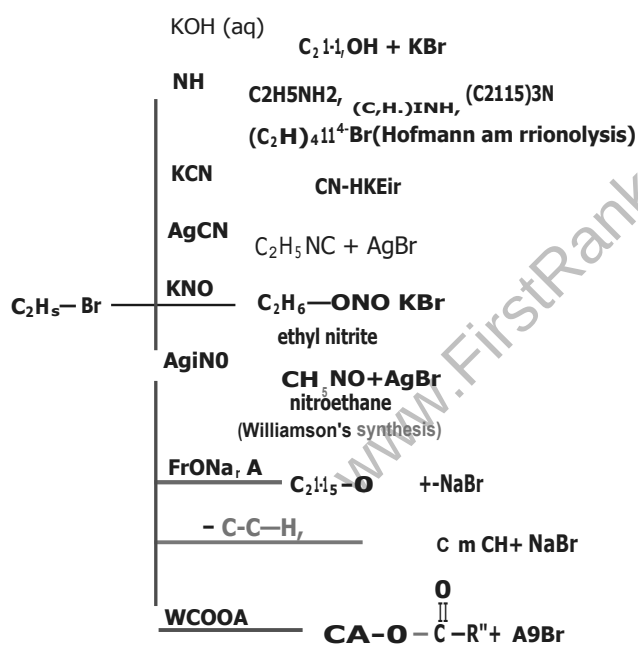
{c1} Frown Diazotization. Chloride.



Balz-Schiemann reaction ;



Nucleophilic Substitution Reactions



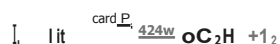
2. Elimination Reactions

Dehydrohalogenation is a reaction in which halogen is from α-carbon atom and the hydrogen from the β-carbon according to Saytzeff rule, e.g.,

Br



Reduction

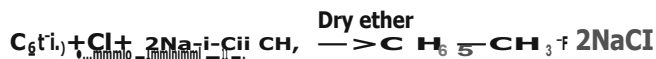


Reaction with Metals

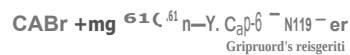
(I) wurtz reaction



Wurtz-Fittig reaction



(III) Reaction with Mg



1#0111Pri3aiitan

ci



Clemmensen reduction of aldehydes

(a) Clow's Process

lomaropc = ximorit.

04,0_____

5

Electrophilic substitution. Reactions

(b) With halogens



4. -- An112id

in

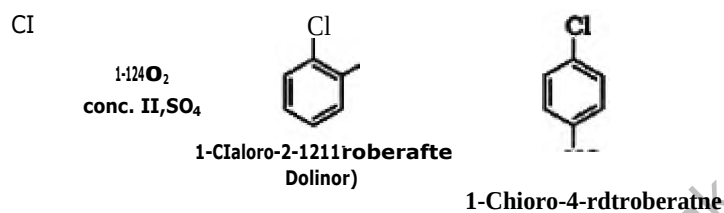


3, 2-Dic
rMineri

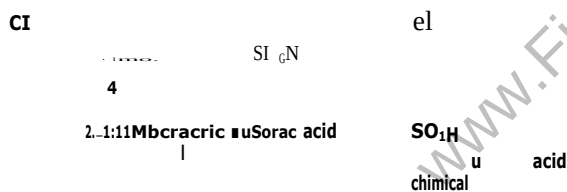
e

Cl
3, 4-Dichlombenzene
NINO

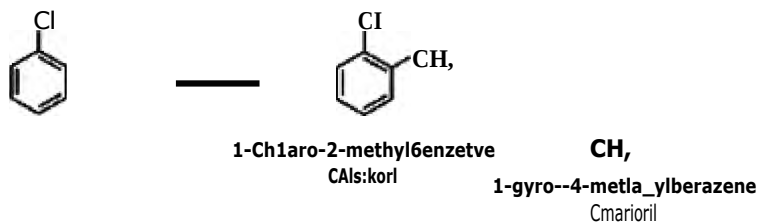
[di With conc. sulphuric acid and nitric acid



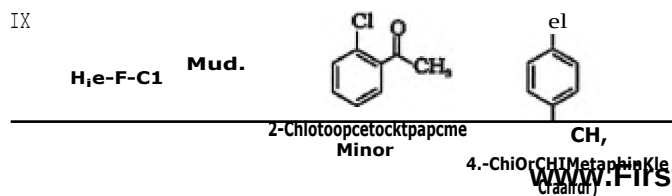
[CI) Chlorobenzene with conc. sulphuric acid



[ell With methyl chloride



[1 '4% lith acetyl chloride



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(i) Other conversion

