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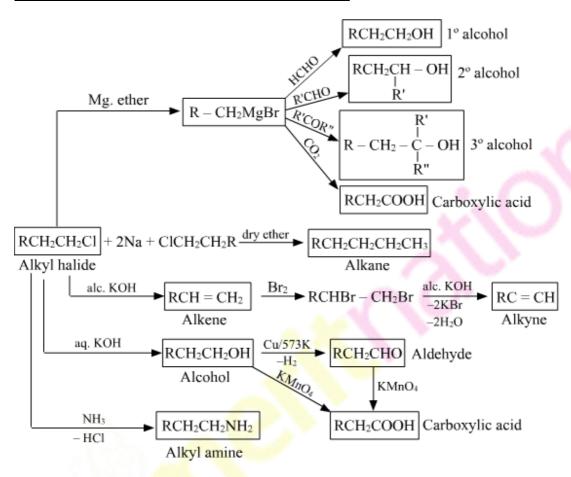
Joyoshish Saha





CONVERSION SCHEMES IN ORGANIC CHEMISTRY

SCHEME – I: Conversions related to alkyl halides

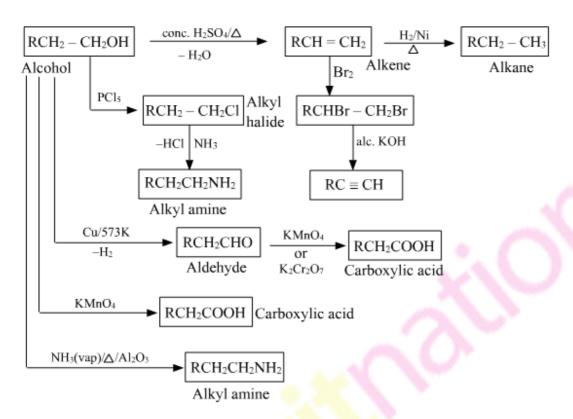




SCHEME – II: Conversions related to aryl halides



SCHEME – III: Conversions related to alcohols





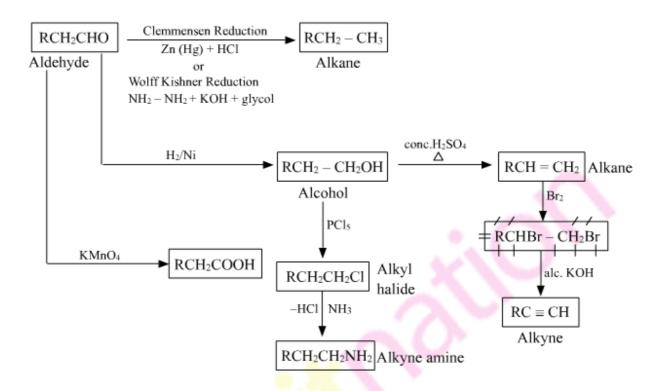
<u>SCHEME – IV: Conversion related to phenols – I</u>



<u>SCHEME - V: Conversion related to phenols - II</u>

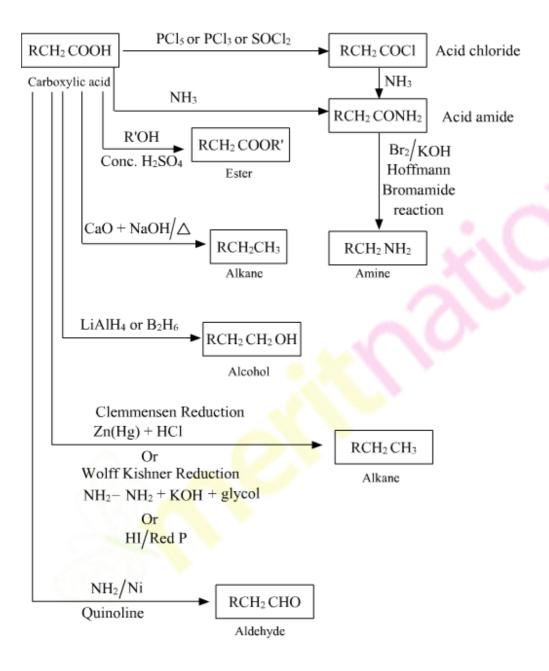


SCHEME – VI: Conversion related to aldehydes



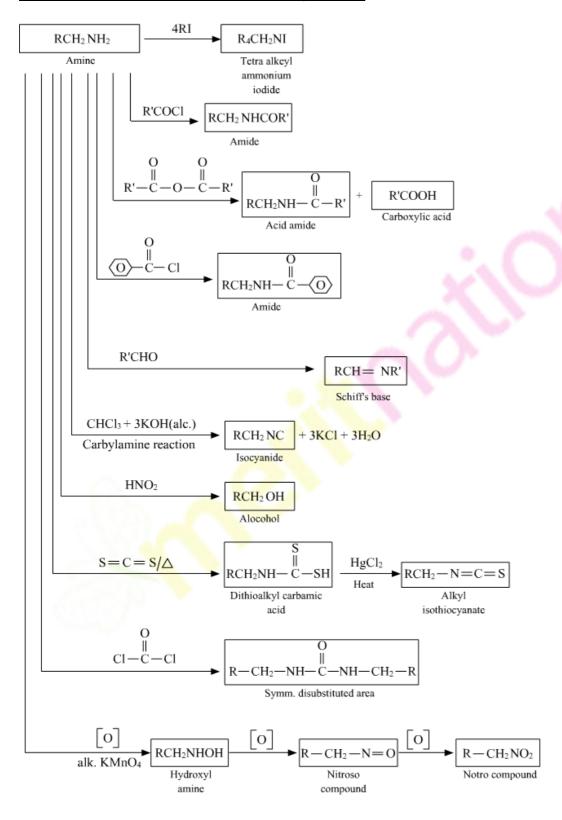


<u>SCHEME – VI: Conversion related to carboxylic acids</u>



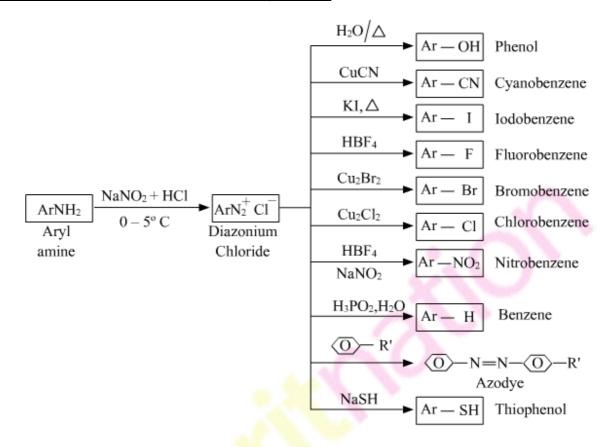


SCHEME – VII: Conversion related to alkyl amines





SCHEME – VIII: Conversion related to aryl amines



ASCENDING SERIES

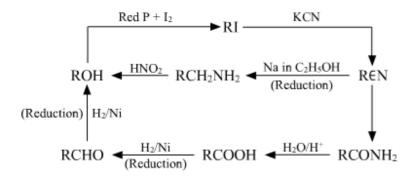
(1) By Wurtz Reaction

$$R - X + 2Na + X - R$$
 Dry ether $R - R + 2NaX$

$$R - X + 2Na + X - R'$$
 Dry ether $R - R' + 2NaX$

(2) By Using Cyanide





(3) By using Grignard's Reagent

(4) By using Sodium Alkylnides

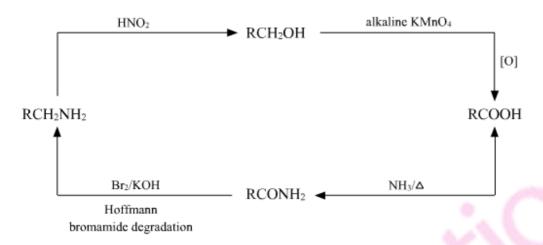
$$R - X + NaC \equiv C - R \longrightarrow R - C \equiv C - R + NaX$$

This reaction is used for terminal alkynes.



DESCENT OF SERIES

(1) Hoffmann Bromamide reaction



(2) Decarboxylation reaction

