

SRI TRIDANDI DEV GOVT. DEGREE COLLEGE,

SHAHAPUR

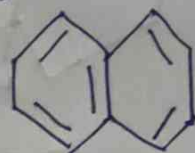
Sub - Chemistry sem V MTC-9

BY. DR. M. KR

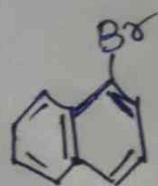
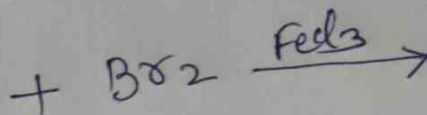
Continue Chemical Reaction of Naphthalene

(3) Halogenation: - Naphthalene reacts with chlorine or Bromine in the presence of catalyst like iron(III) chloride to form 1-halogenaphthalene

eg.

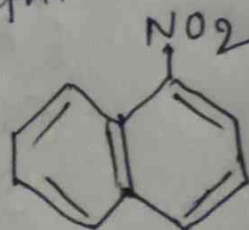
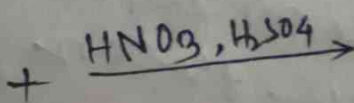
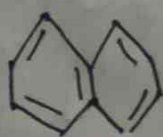


Naphthalene



1-Bromonaphthalene

(4) Nitration: - Naphthalene reacts with nitric acid and sulphuric acid to form 1-Nitronaphthalene

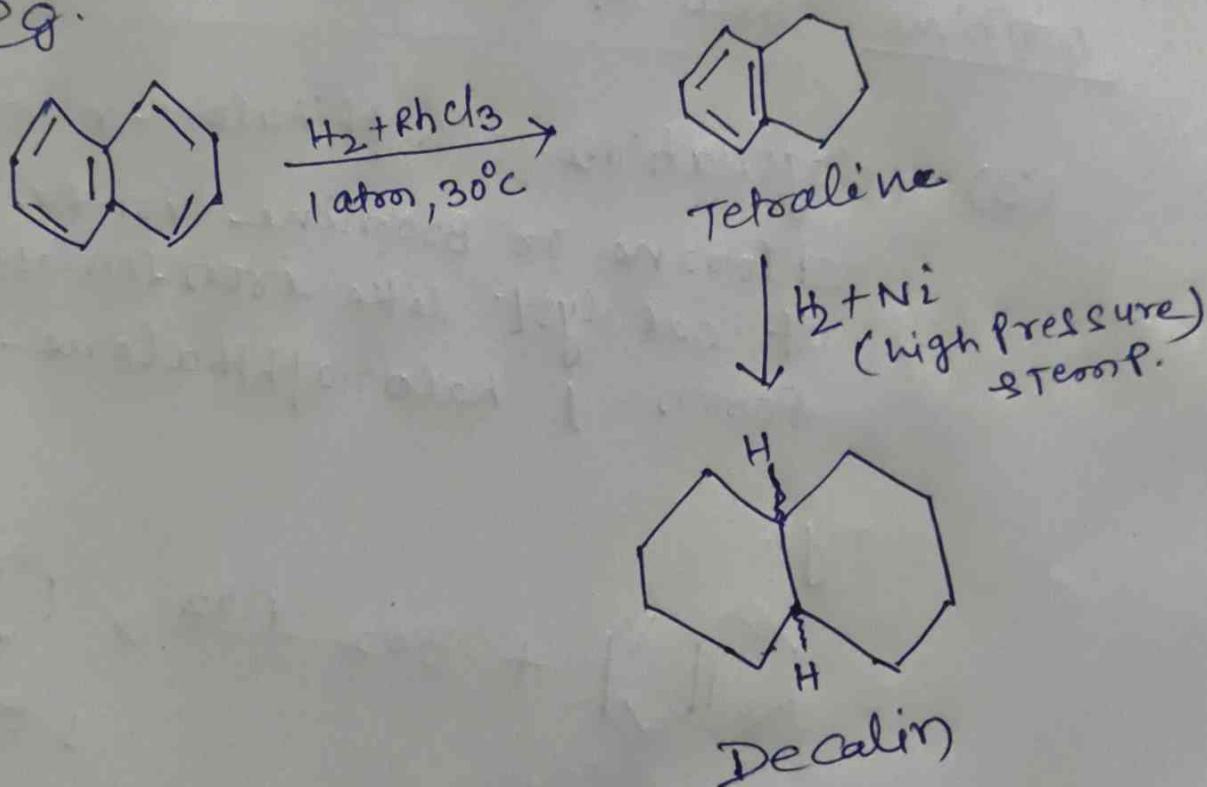


1-Nitronaphthalene

(5) Reduction

Hydrogenation under high pressure with a metal catalyst reduce one ring to give tetralin ($C_{10}H_{12}$) and further hydrogenation yields decalin ($C_{10}H_{18}$)

eg.

(6) with Alkali Metal.

Naphthalene reacts with sodium (Alkali Metal) in an ethereal solvent like tetrahydrofuran formed sodium naphthalenide, a deep blue-green radical anion salt. Acts as a strong reducing agent.

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