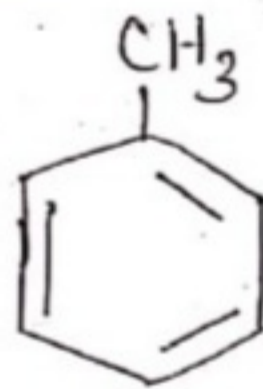


AROMATIC COMPOUNDS

04-05-2020 (Lecture-11) D-II (S) ONLY

TOPIC - PREPARATION, PROPERTIES
AND USES OF TOLUENE.

TOLUENE



Deg-II (Sub.) only

Chapter-4, Group-'C'

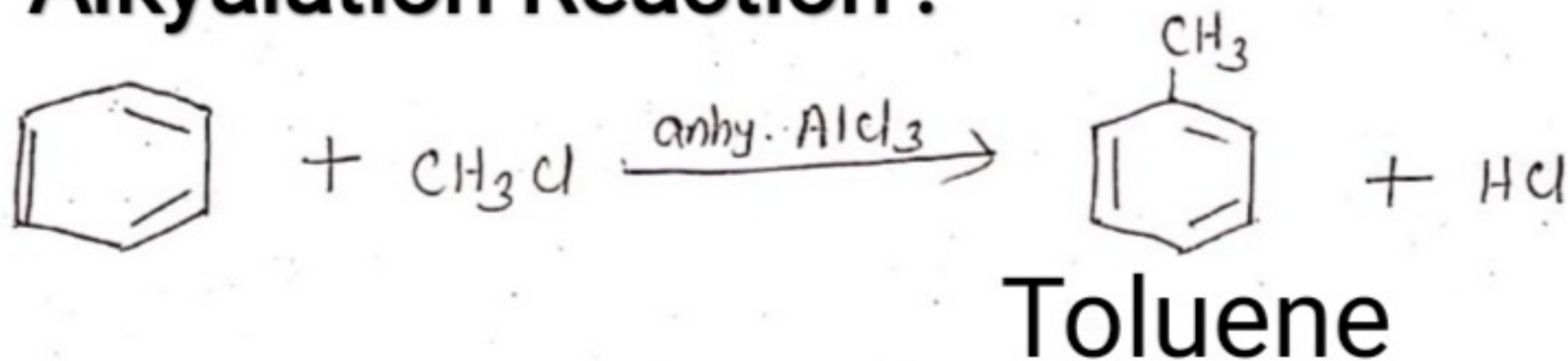
By-Dr.Rinky Kumari.

dept.of Chemistry.

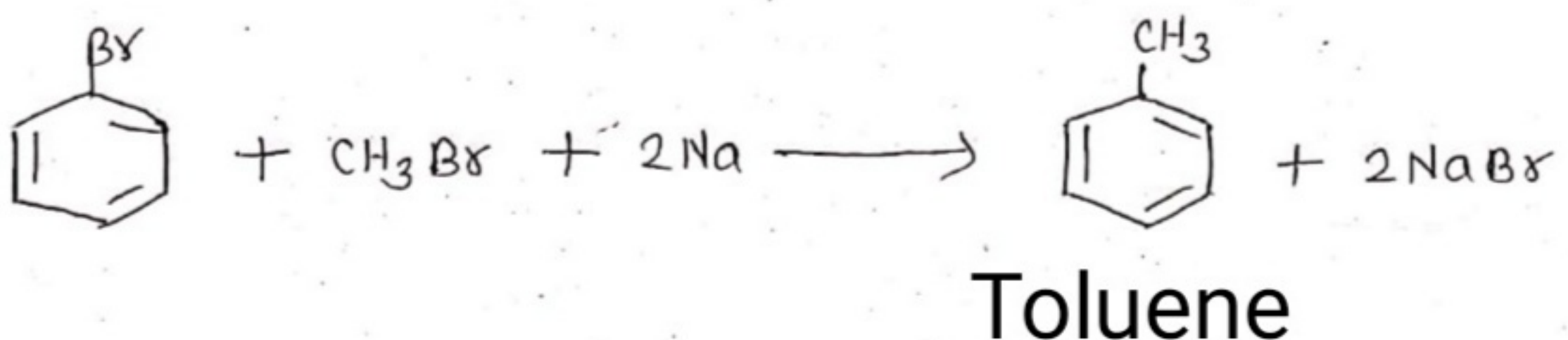
N.N.College,MDB

PREPARATION

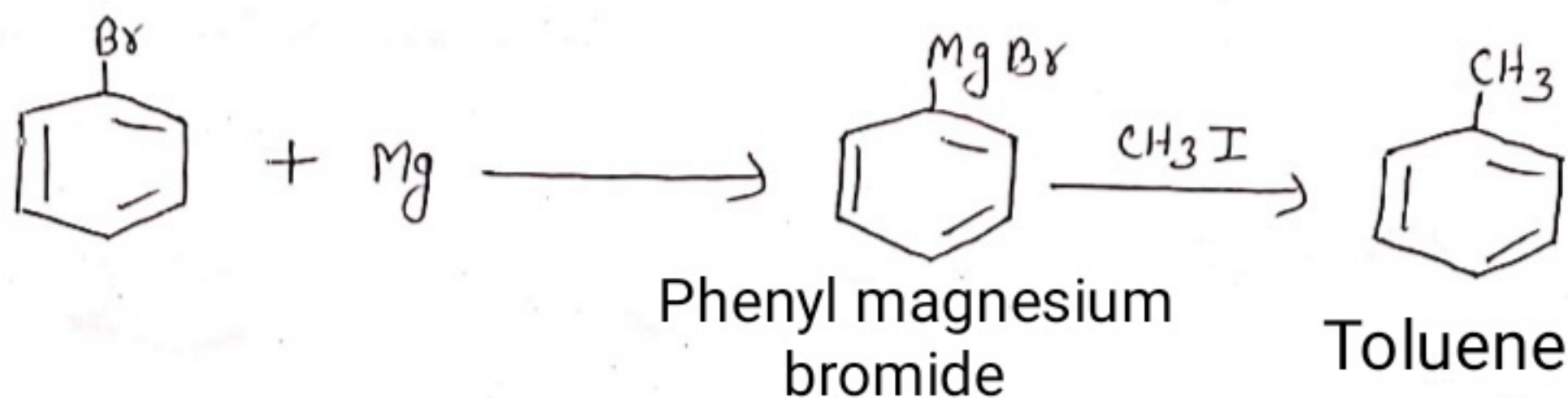
1. From Benzene by Friedel craft's
Alkylation Reaction :-



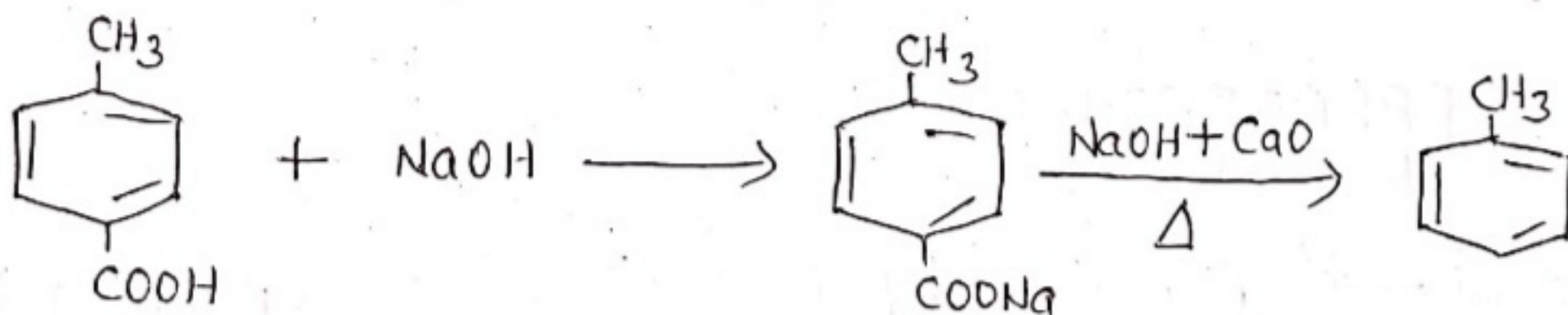
2. By using Wurtz-Fittig Reaction



3. By using Grignard Reagents



4. By Decarboxylation of p-toluic (Acid)



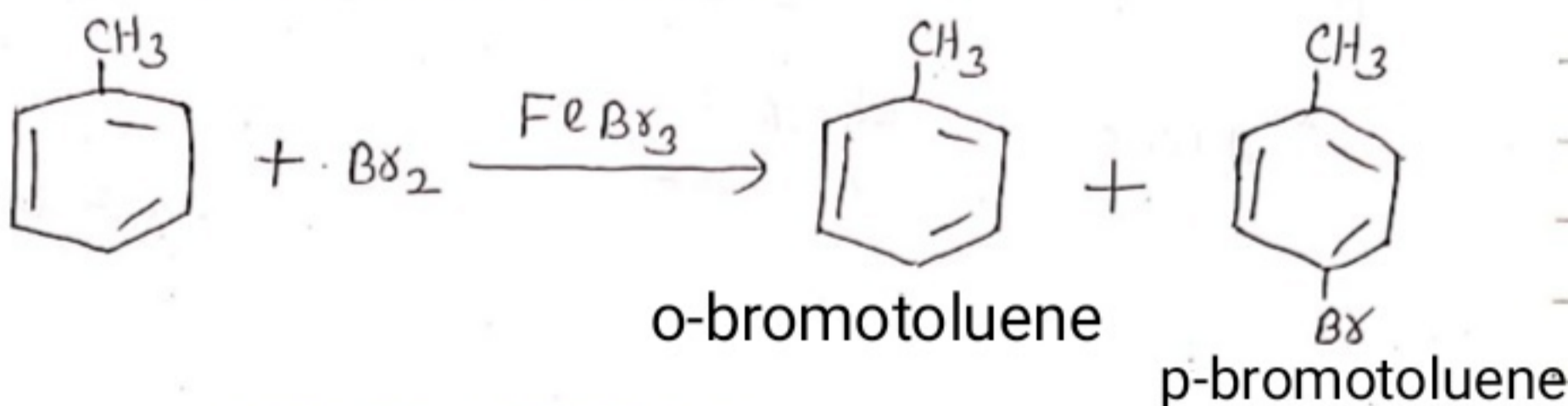
PHYSICAL PROPERTIES

It is colourless, water insoluble liquid with the smell associated with paint thinners.

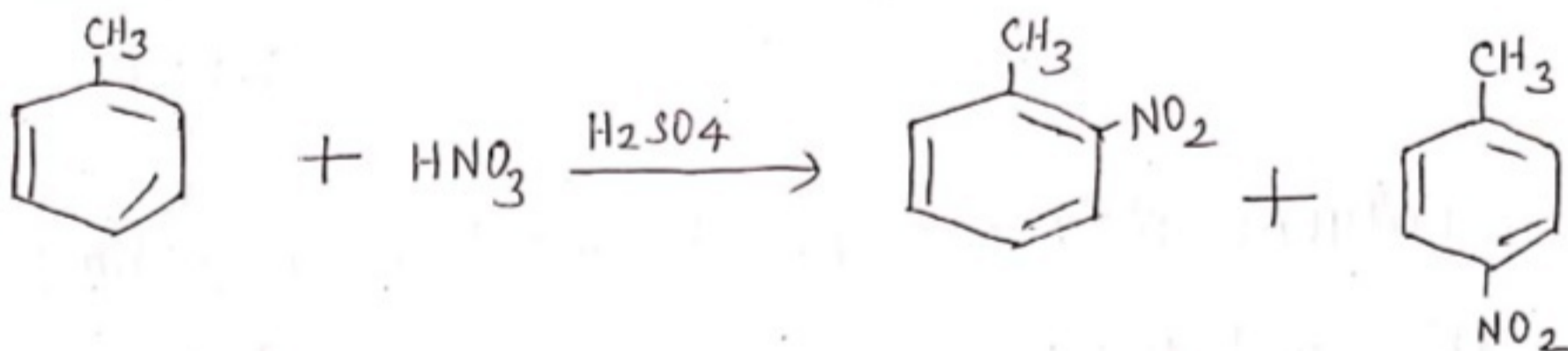
CHEMICAL PROPERTIES

1. Electrophilic Substitution Reaction

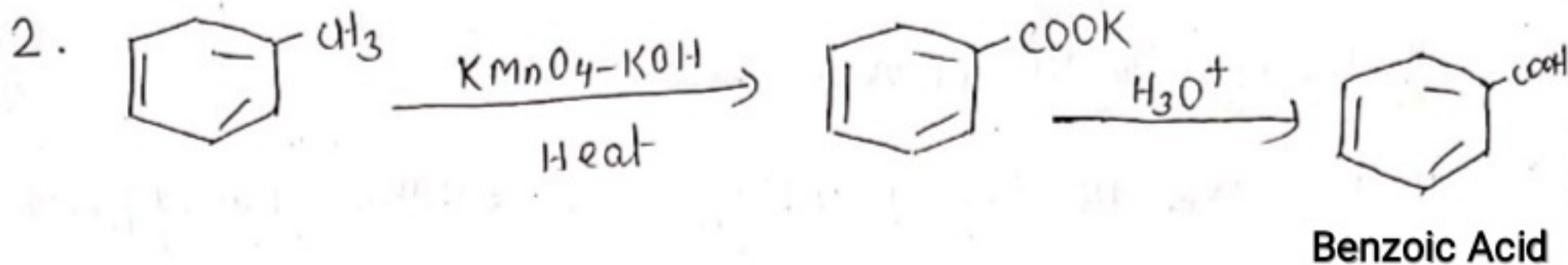
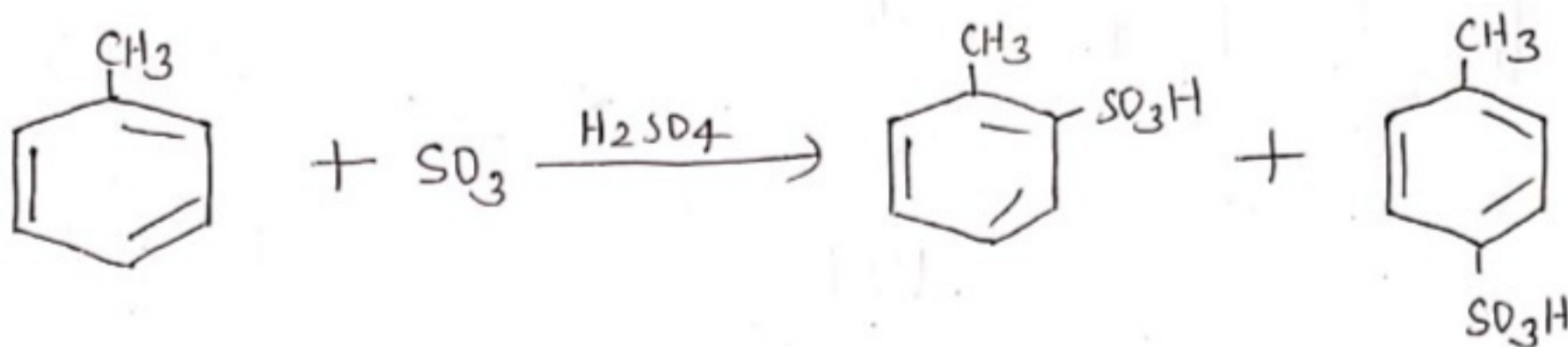
BROMINATION



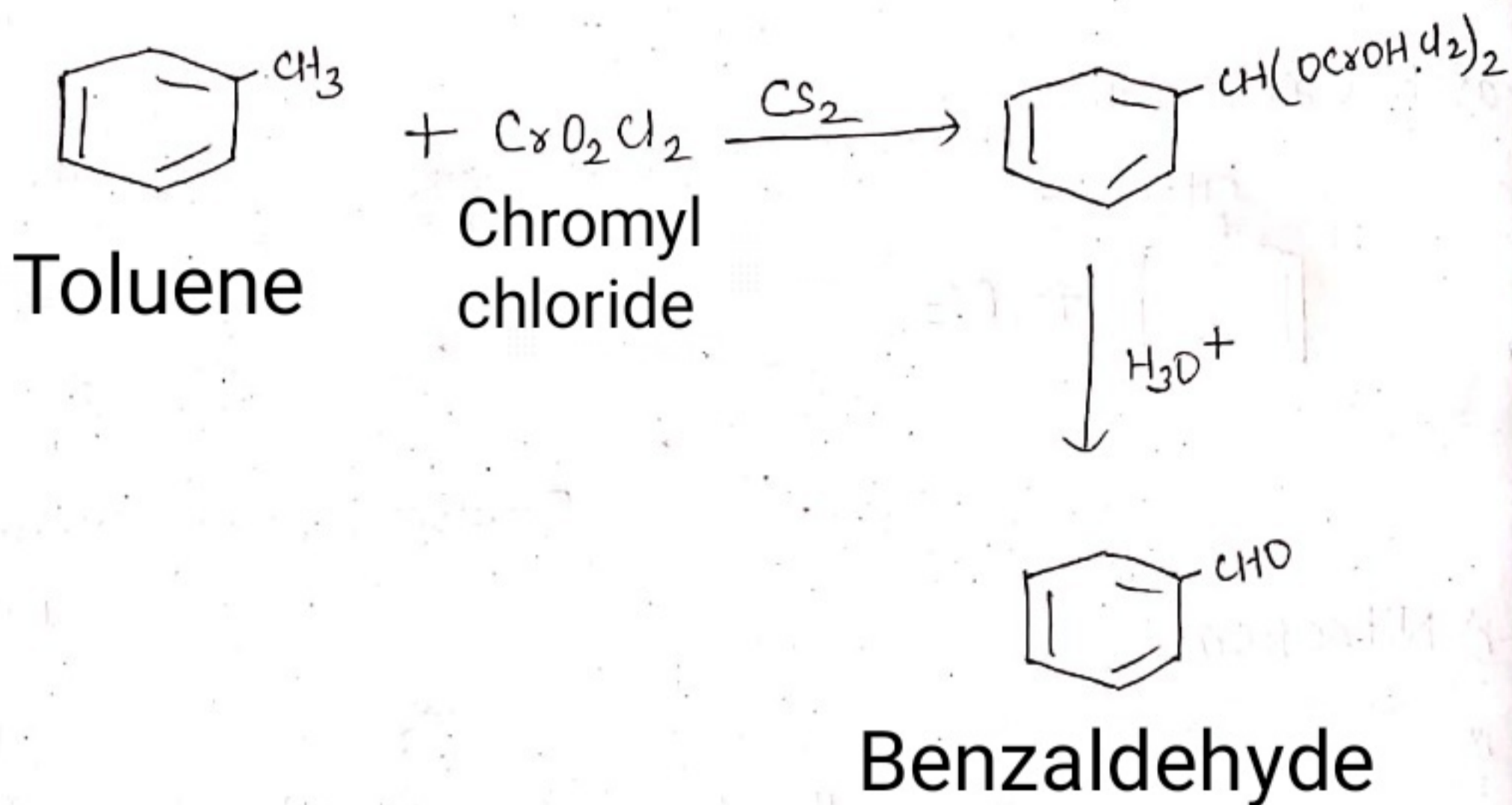
NITRATION



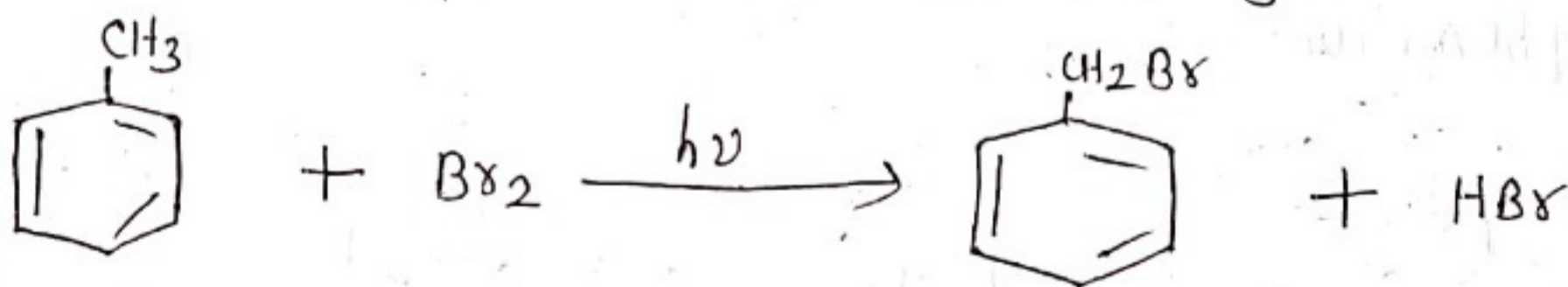
SULPHONATION



3. Etard Reaction



4. Toluene may also be brominated by treating with HBr and H_2O_2 in the presence of light.



USES

1. Toluene is used as solvent in paints, lacquers, glue, nail polish remover etc.
2. It is used in the printing and leather tanning processes.
3. It is also used as fullness indicator.