

For- B.sc II Hons. Paper III (C)

Electrophilic substitution in
Aromatic compound

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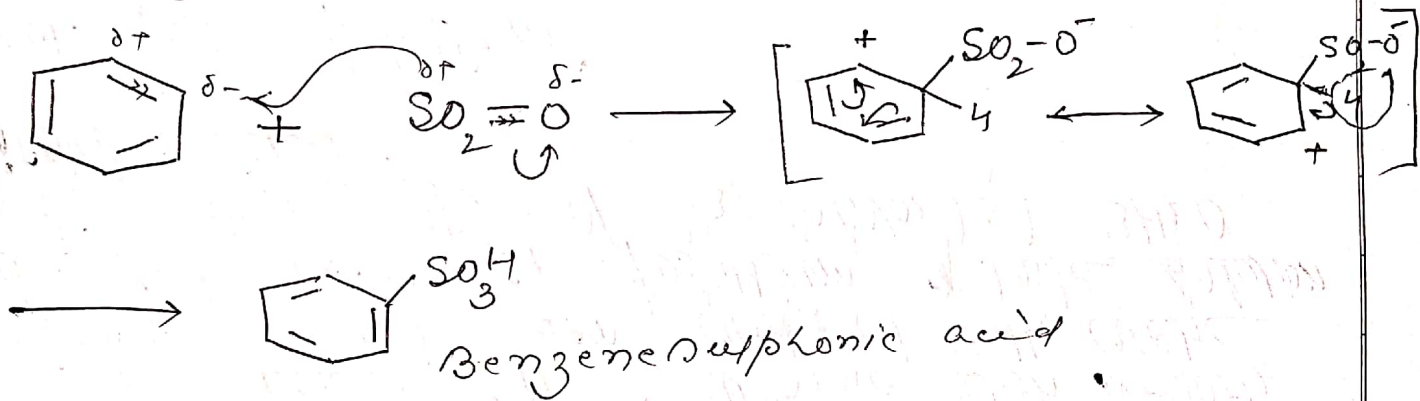
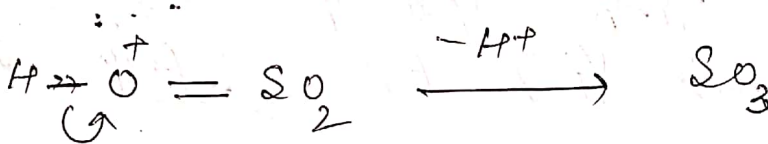
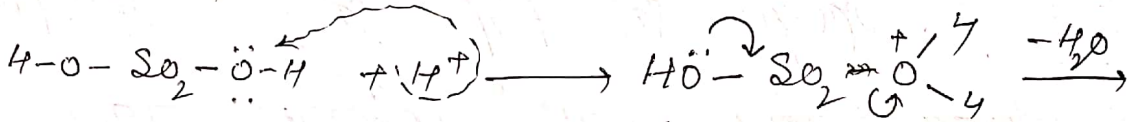
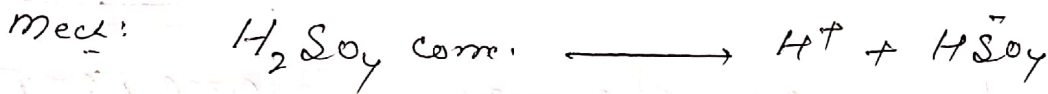
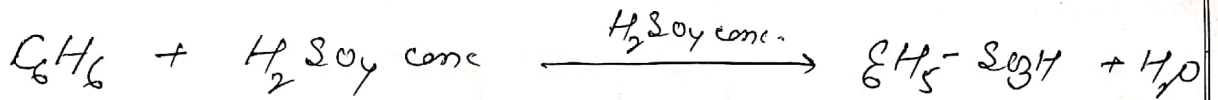
H.O.D chemistry

Oriental college

5) Sulphonation of Benzene

Benzene when react with H_2SO_4 conc. it give benzenesulphonic acid.

This reaction is called Sulphonation of benzene.



⇒ All the above substitution reaction are electrophilic substitution where $AlCl_3$ only, act as catalyst which interact with reagent to give attacking electrophile but in case of nitration and Sulphonation of Benzene conc. H_2SO_4

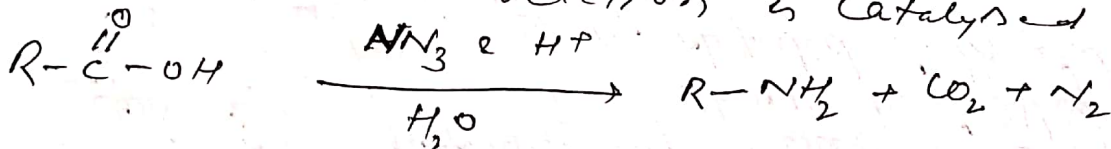
⇒ Alkylation and Acetylation of Benzene are also known as Friedel craft reaction

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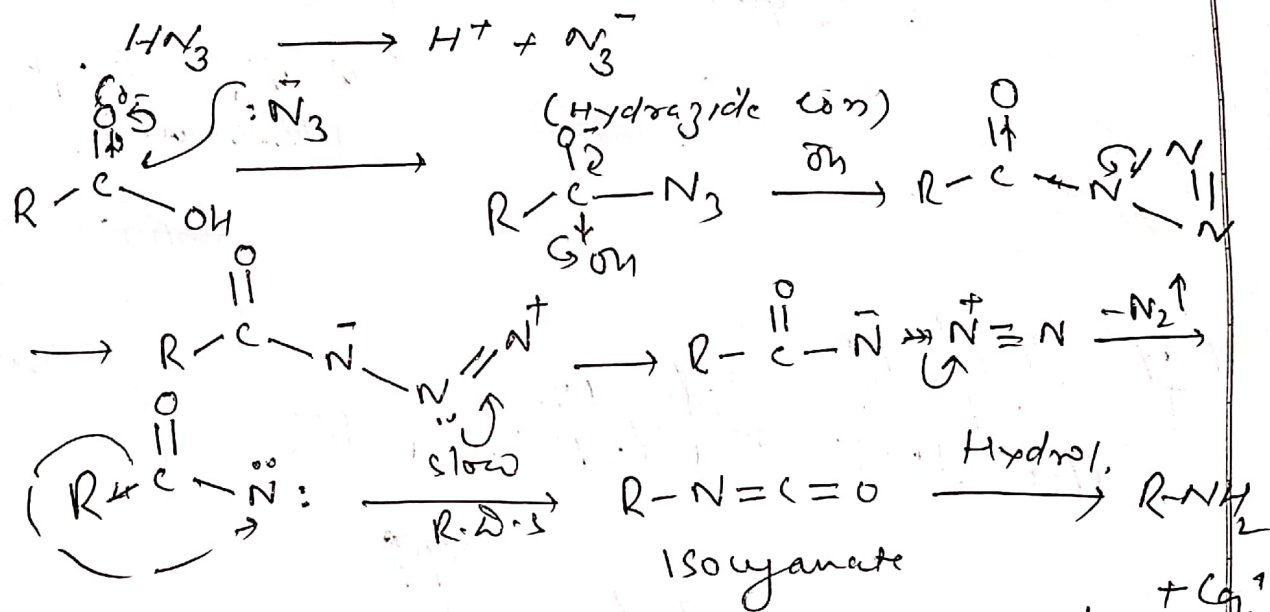
REACTION BY NAME

Schmidt rearrangement reaction

Monocarboxylic acid, when react with hydrazoic acid followed by hydrolysis α -amine is obtained. This reaction is catalysed by H_2O con.



Mech:



- It is believed reaction proceed via nitrene formation.
- migration of R-grp from carbonyl carbon to nitrogen in slow manner and R.D.S
- Isocyanate is an intermediate products.