

AMINES AND UREA

1.

26-04-2021

Lecture-7

Deg-I (Hons.)

Properties and Uses of Aromatic Amines..

Paper-II Group-B, Chapter-4

PHYSICAL PROPERTIES

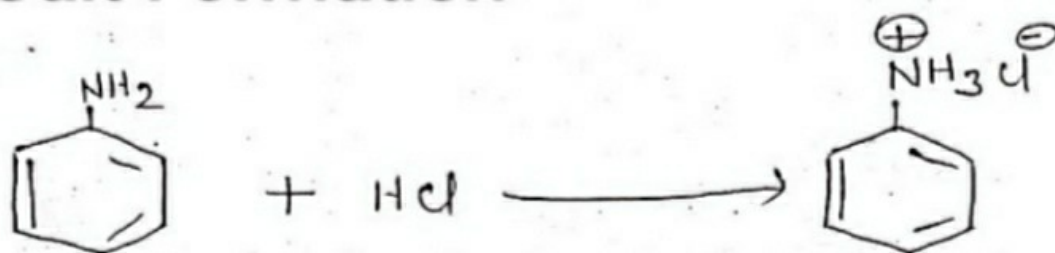
1. Aromatic amines are colourless liquids or solids.
2. Aromatic amines have a characteristic odour which is not pleasant. They turn brown in air owing to oxidation.
3. They have high melting and boiling points compared to analogous alkanes.
4. Sparingly soluble in H_2O .

By-Dr.Rinky

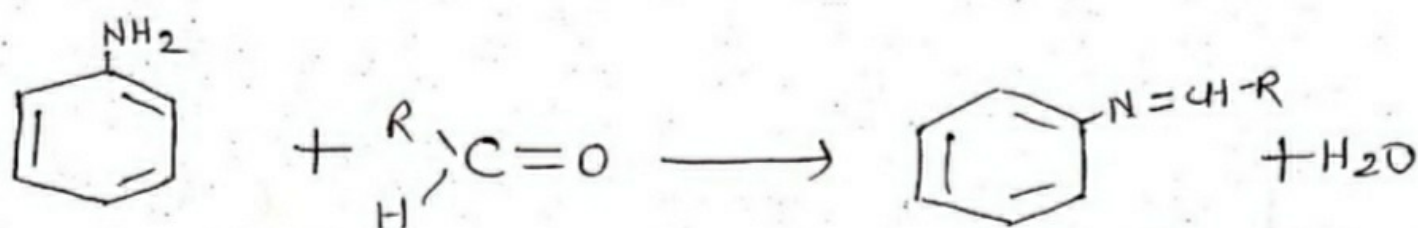
CHEMICAL PROPERTIES

2.

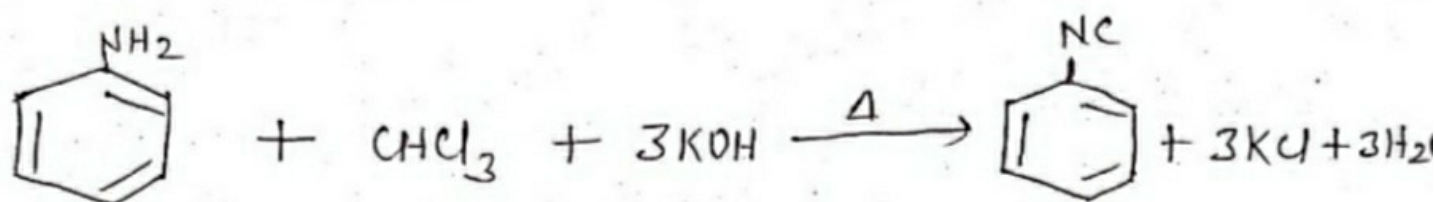
1. Salt Formation



2. Reaction with Aldehyde

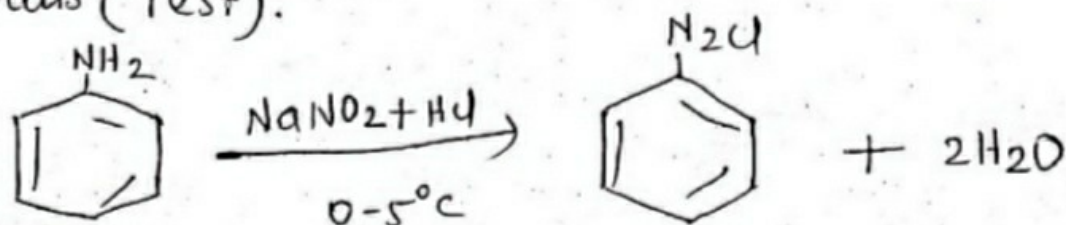


3. Carbyl amine reaction



4. Reaction with Nitrous Acid

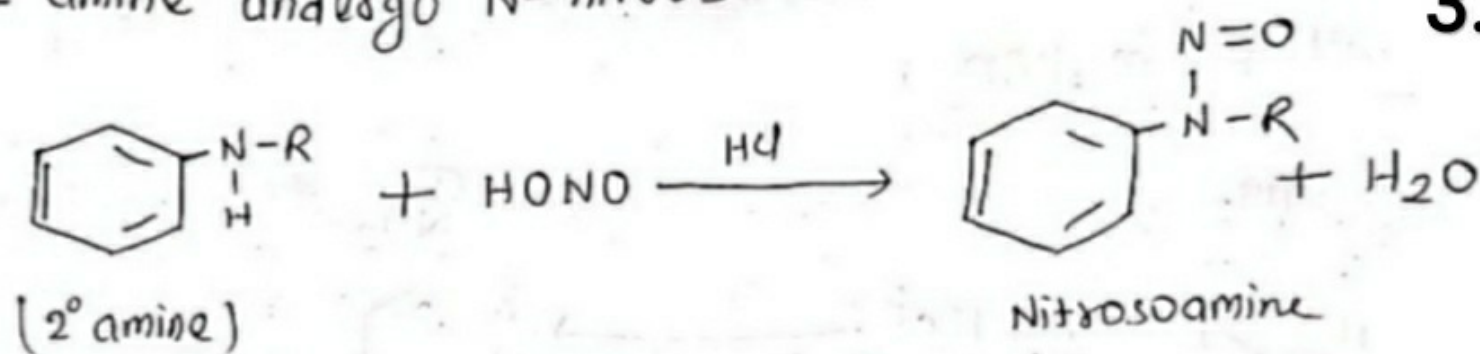
Aromatic amine undergo diazotization to give diazonium salts (Test).



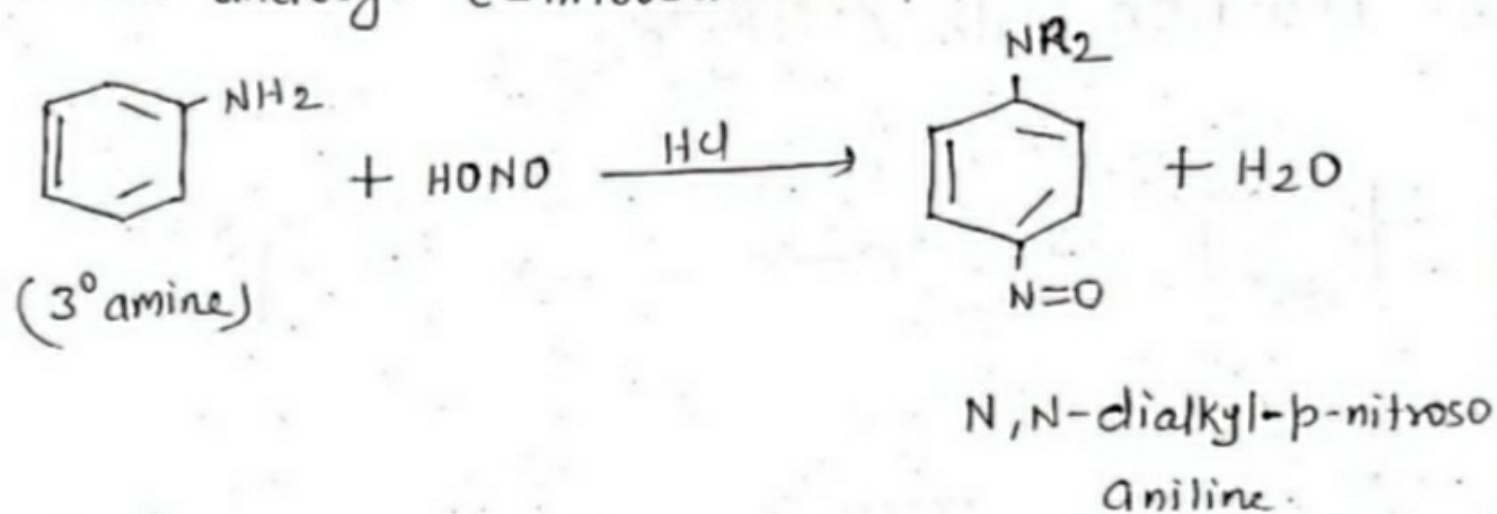
1° amine

2° amine undergo N-nitrosation.

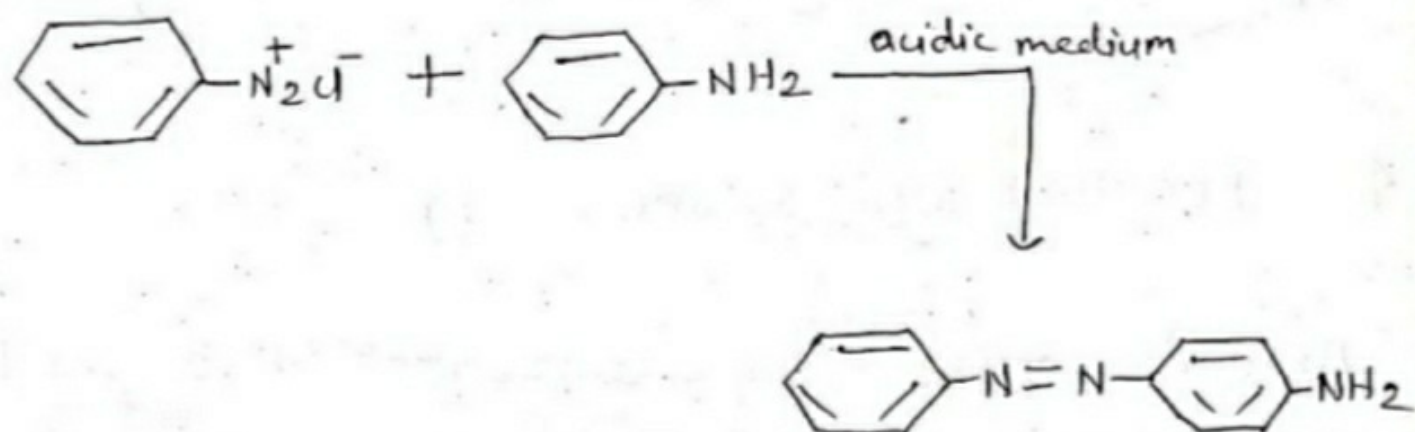
3.



3° amines undergo C-nitrosation.



5. Diazo-Coupling Reaction



USES OF AROMATIC AMINES

1. For Preparation of dyes.
2. For manufacturer of antioxidant.
3. For making isocyanates required for polyurethane plastic used for insulation.

Aromatic Amines as well as Amines Completed.