

SUBJECT - CHEMISTRY

CLASS - B.Sc (Hons) PART - II

PAPER - IV GROUP - B

TOPIC - Sandmeyer reaction

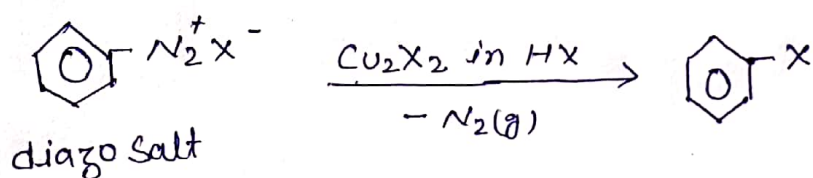
Dr Hasi Mohan Prasad Singh

Department of Chemistry

Dr. L. K. V. D College Tarapur Sarnautpur

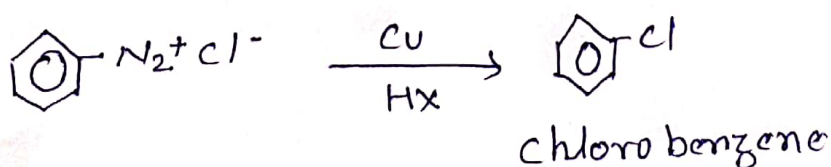
Sandmeyer reaction

The reaction of diazo salt with a boiling 10% solution of  $\text{Cu}_2\text{X}_2$  in  $\text{HX}$  where  $\text{X} = \text{Cl}, \text{Br}$  or  $\text{CN}$  to give the corresponding chloro, bromo or cyano benzene is called Sandmeyer reaction



In this reaction, if we use finely divided copper, freshly precipitated or reduced by  $\text{H}_2(\text{g})$  then it occurs at room temperature with better yield.

This modified Sandmeyer reaction is called Gattermann reaction -



Mechanism:

