

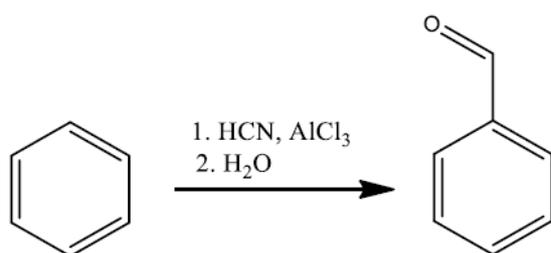
Answer on Question #54383 – Chemistry - Organic Chemistry

Question:

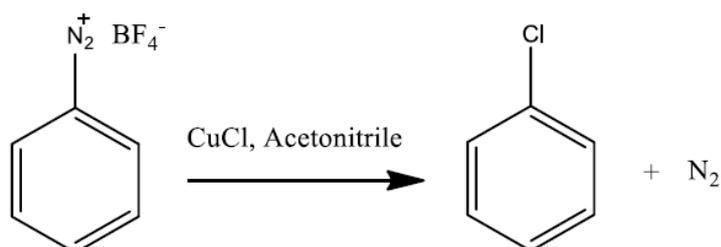
What is Gattermann reaction? How is it different from Sandmeyer reaction? Explain giving suitable example.

Answer:

Gattermann reaction is the reaction of aldehyde synthesis including the formylation of aromatic compound with cyanic acid.



Sandmeyer reaction is the reaction of the synthesis of arylhalides from the corresponding diazonium salts.



The main differences between these reactions that Gattermann reaction belongs to the Friedel-Crafts type reaction involving the nucleophilic substitution in the aromatic ring, and Sandmeyer reaction includes the intramolecular redox-process resulting in the elimination of N₂ molecule.