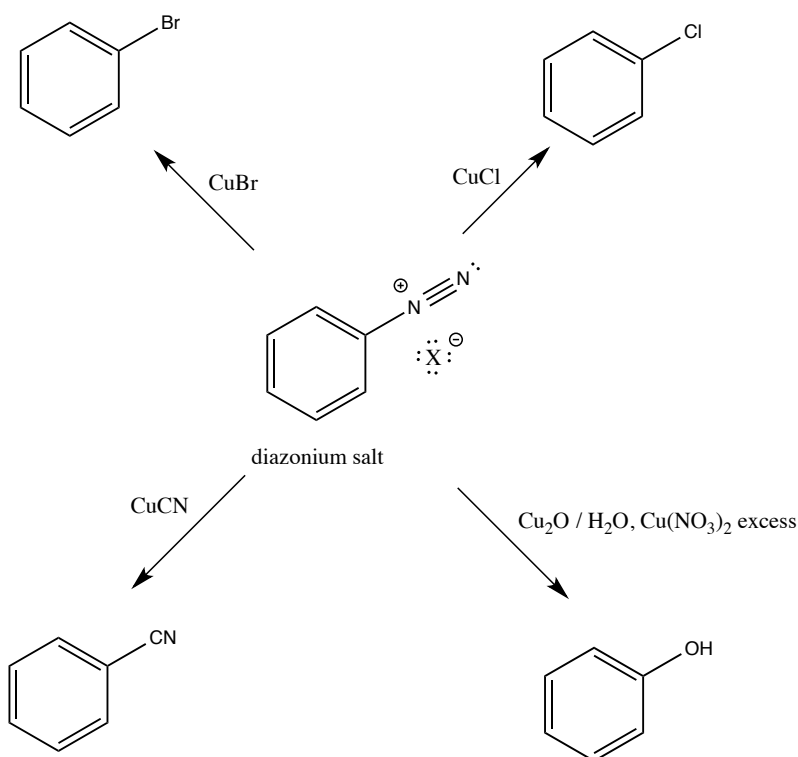


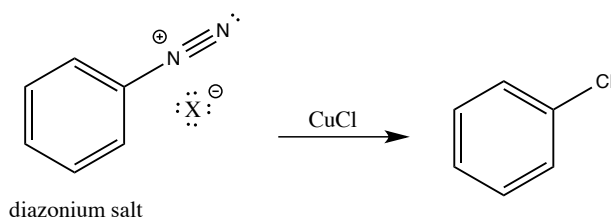
The Sandmeyer Reaction

Reactions:



$\text{X} = \text{Cl}^- \text{ or } \text{SO}_4^{2-}$

The use of diazonium salts with a variety of $\text{Cu}(\text{I})$ salts to produce the corresponding substitution as shown above are known as the Sandmeyer reaction. The cuprous ion is a catalyst in the reaction. Each one of the transformations shown above has a slightly different mechanism. Shown below is the mechanism for the CuCl reaction.



Mechanism

