PREPARATION OF BENGENE FROM PHENOL:

OH

+ Zn dust + ZnO

Zinc Dust Zinc Oxide

Phenol Benzene

When phenol reacts with Zinc in the presence of Zinc dust as a reagent, Benzene is formed along with Zinc oxide as a by-product.

Property of Benzene:

Friedal Craft Acylation: COCH3

+ CH3COcl Anhydrous Alcl3 + Hcl

Methyl acylated chloride Hydrogen

Benzene Benzophenone Chloride

Benzene reacts with Methyl acylated chloride in the presence of anhydrous Alcl3 as reagent to form Benzophenone along with Hydrogen chloride as by- product