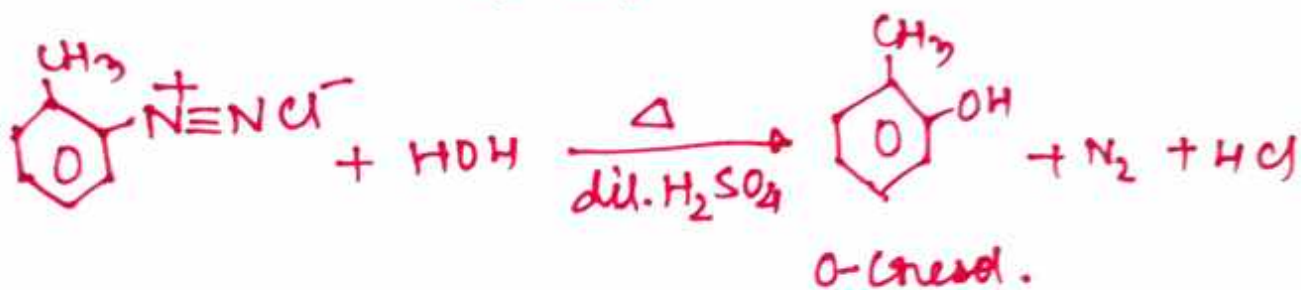
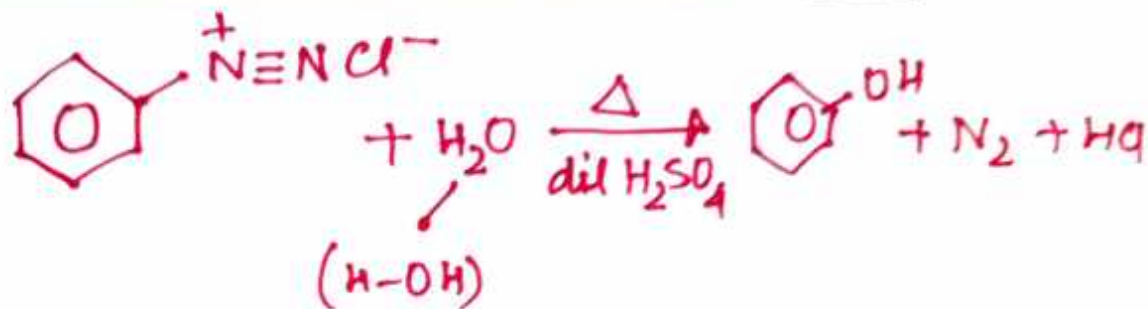


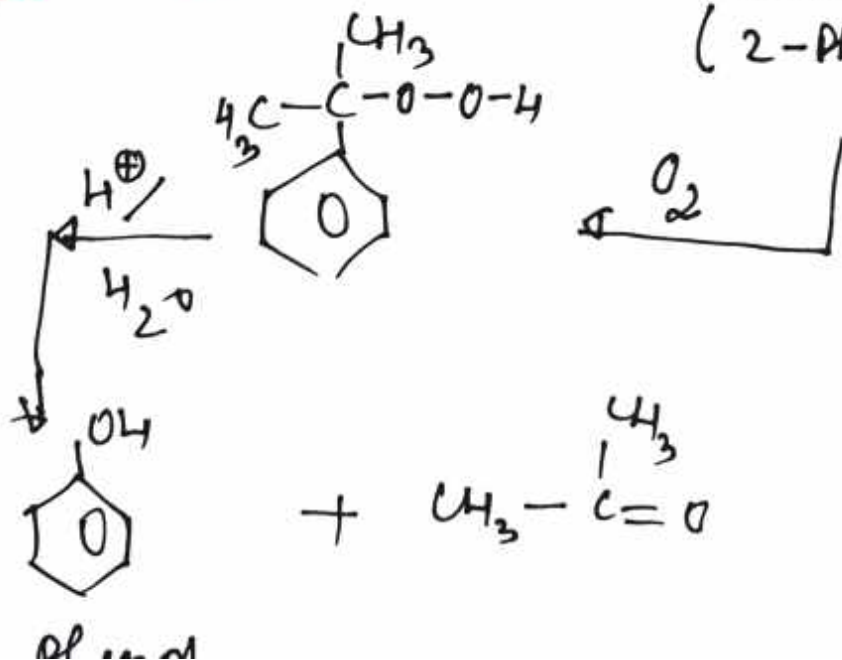
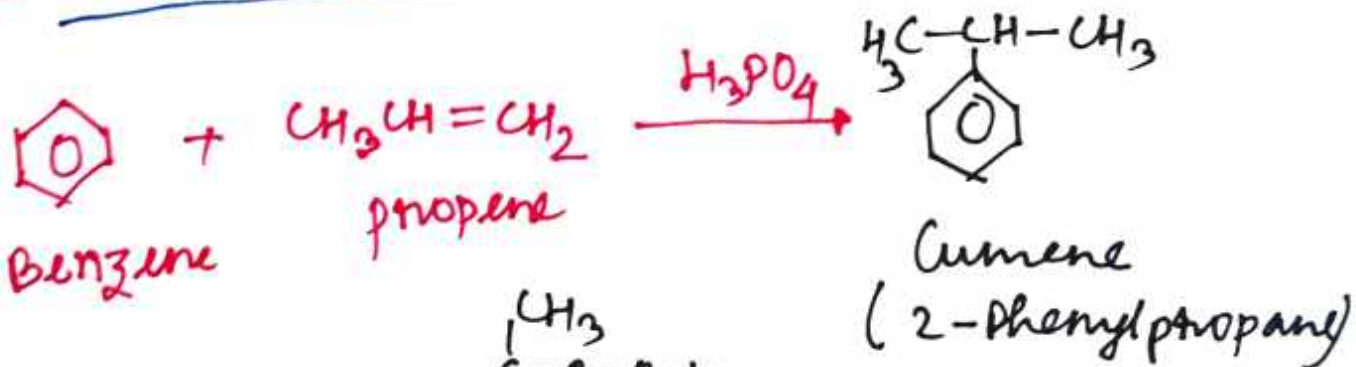
PHENOLS

Methods of Preparation

① From benzene diazonium chloride -



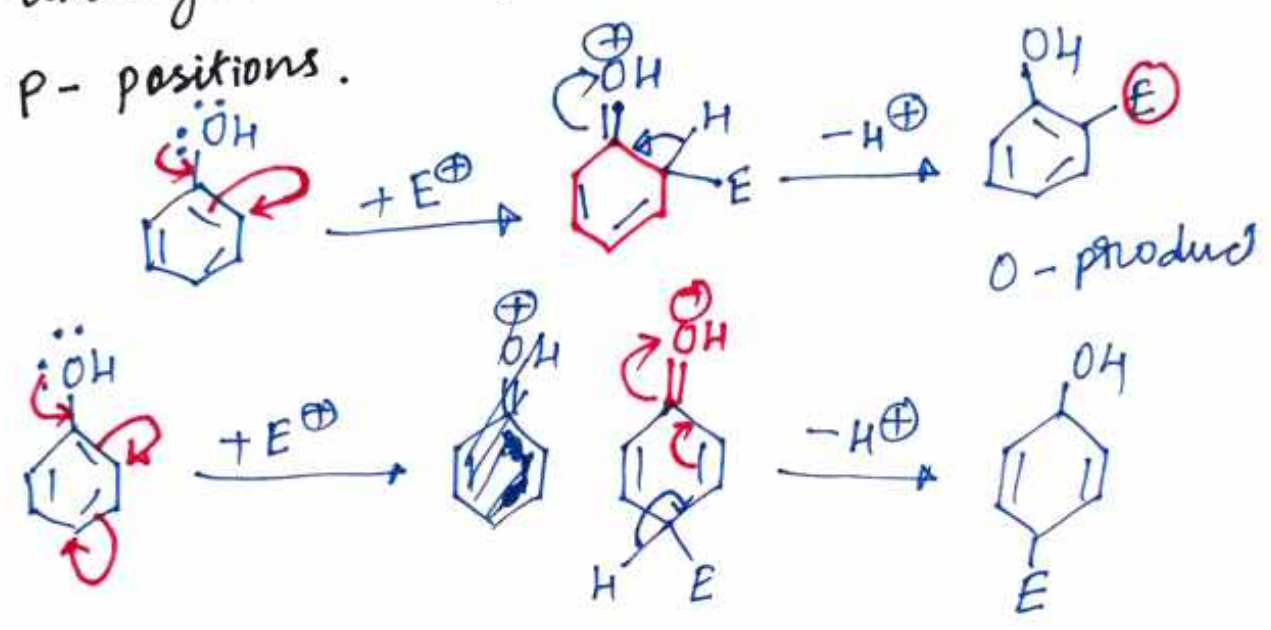
② From oxidation of Cumene (isopropyl benzene)



Chemical Reactions of Phenol.

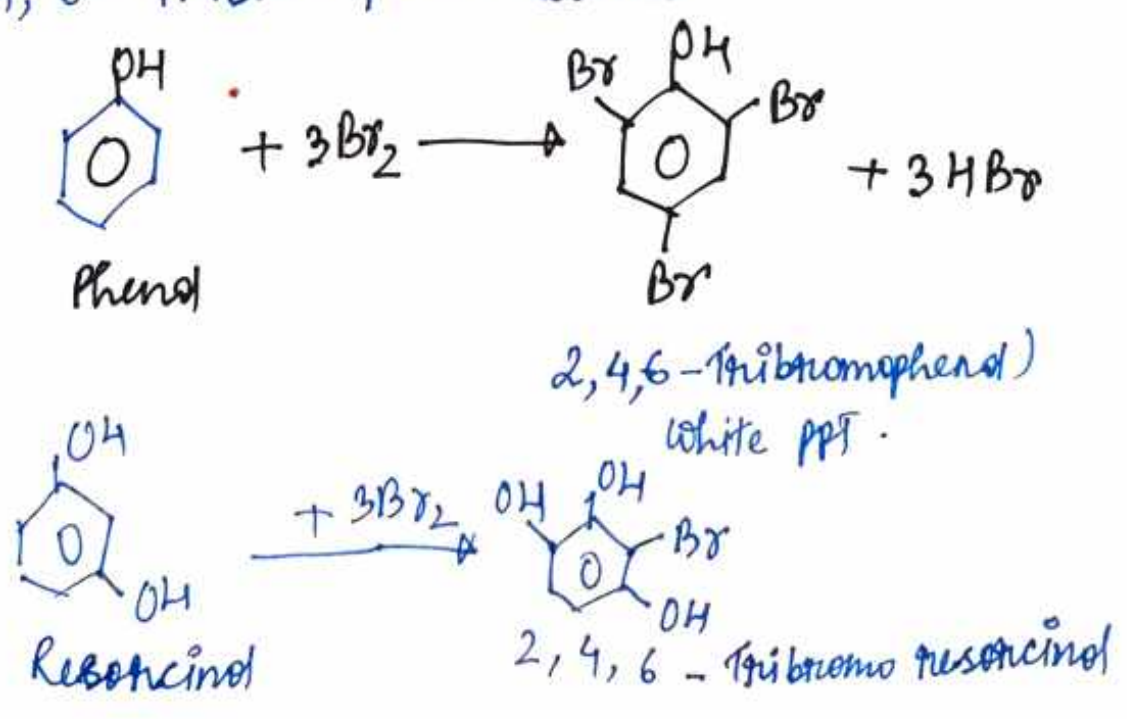
Electrophilic Substitution

The -OH group present ~~on~~ ^{on} the ring activates it for electrophilic attack. Phenol undergoes electrophilic attack at o- and p- positions.

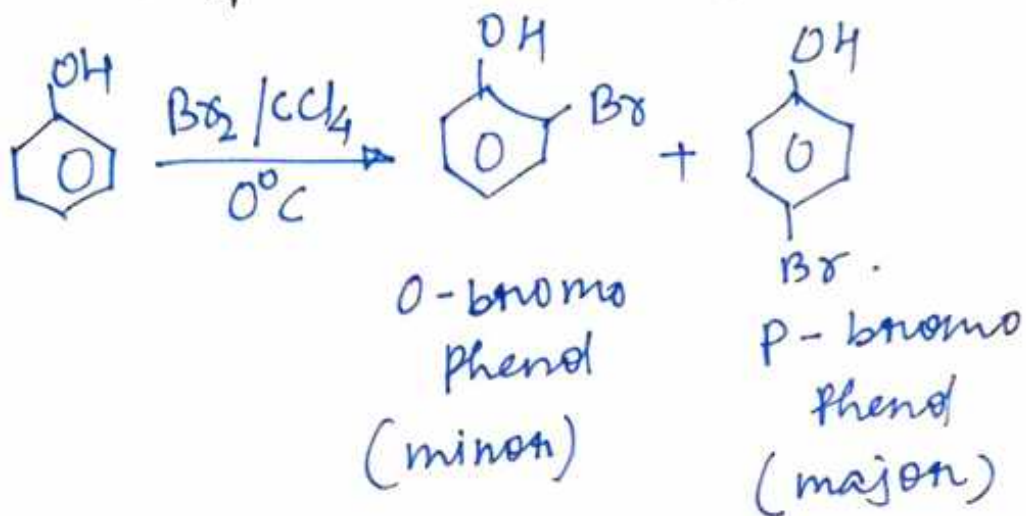


① Bromination →

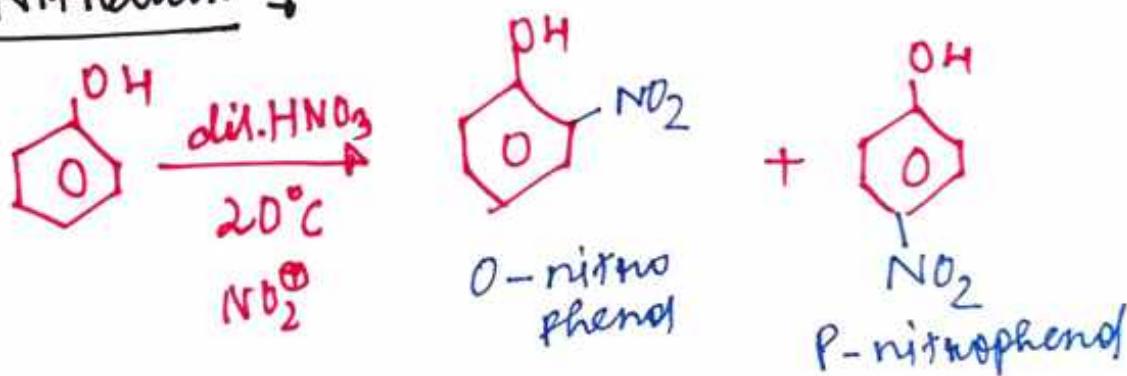
On adding bromine to phenol, 2, 4, 6 - Tribromophenol results.



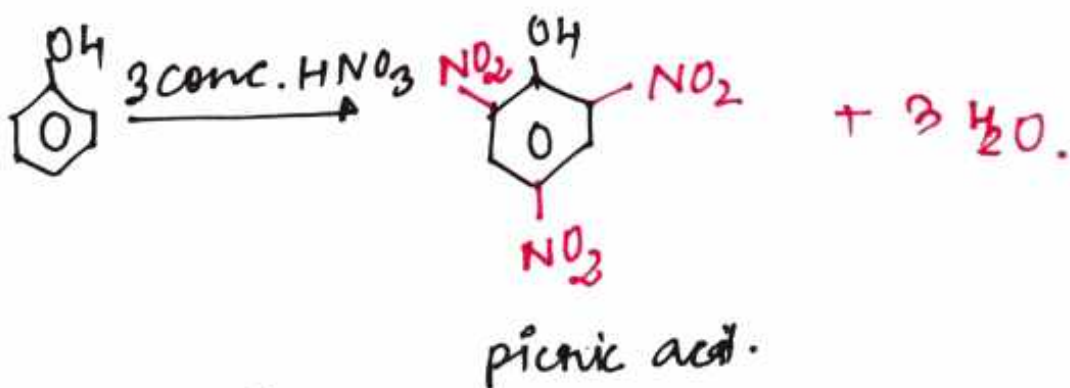
→ In order to get monobromophenol, Br_2 in non-polar solvent like CCl_4 is treated with phenol at 0°C .



② Nitration →



If treated with conc. HNO_3 -



③ Sulphonation

