

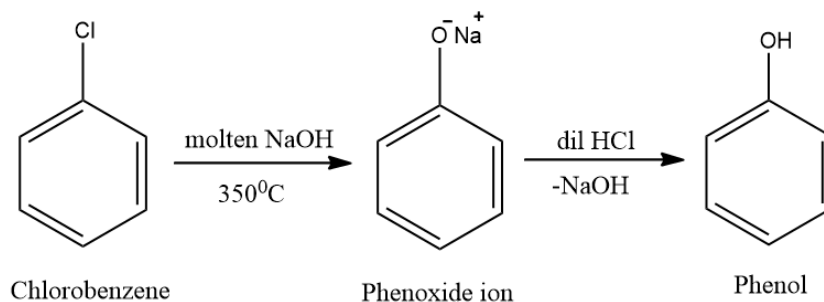
PHARMACEUTICAL ORGANIC CHEMISTRY-II- BP301T

UNIT: 2 Phenols

CLASS: 3

TOPIC Method of Preparations of Phenols:

1) From Chlorobenzene:



Chlorobenzene is react with sodium hydroxide to form phenoxide ion

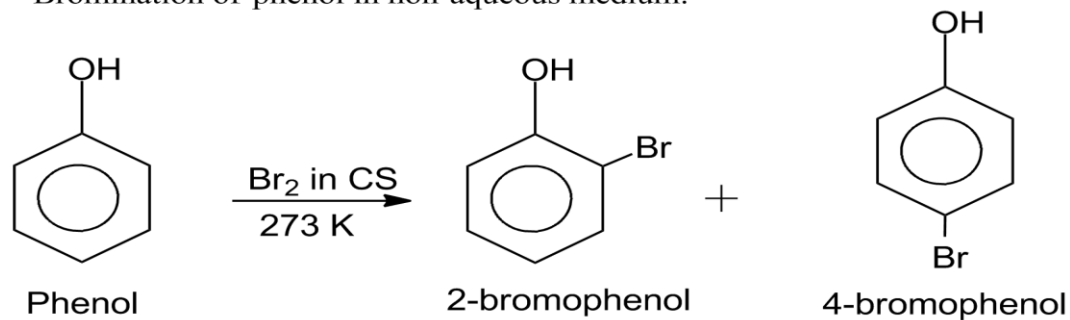
The phenoxide ion is reacting with dilute hydrochloric acid to form phenol.

2) From Bromination:

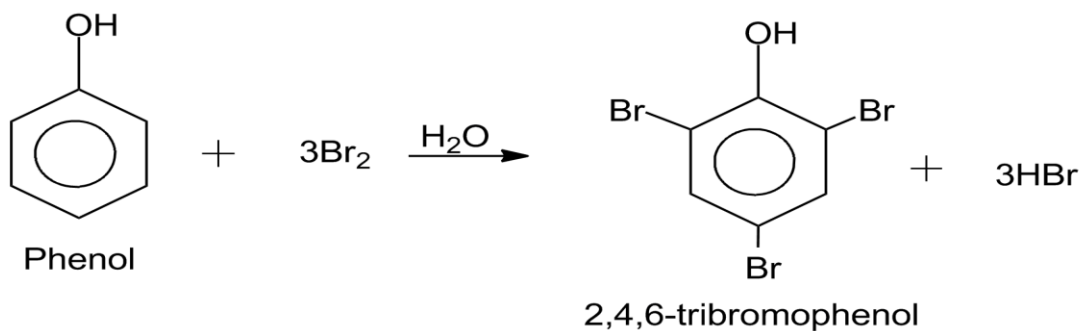
Phenol is reacting with 2 molecules of bromine to form 2-Bromo Phenol and 4-Bromo Phenol.

Phenol is reacting with 3 molecules of bromine to form 2, 4, 6 tri bromo Phenol.

Bromination of phenol in non-aqueous medium:

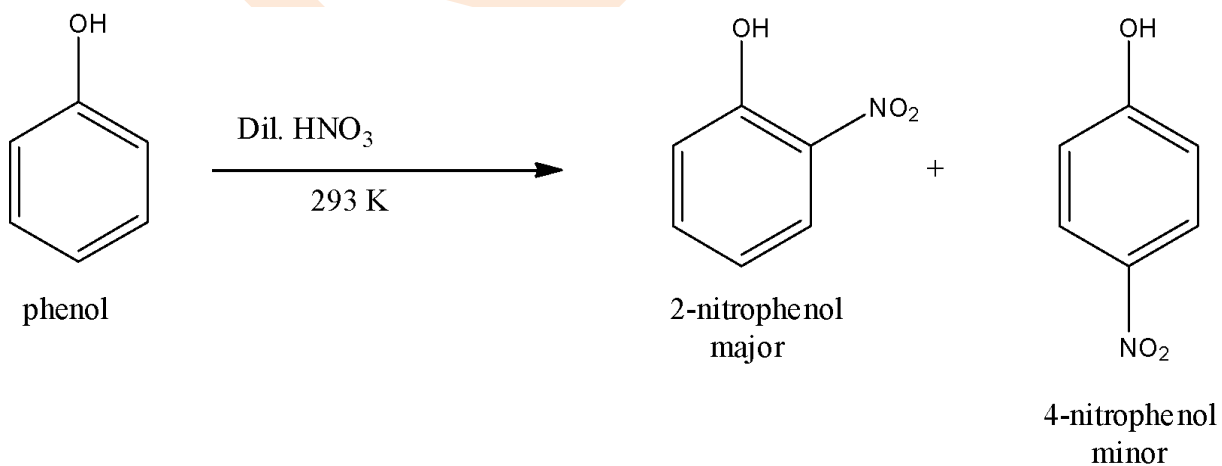


Bromination of phenol in aqueous medium:



3) From Nitration:

Phenol is reacting with dilute nitric acid to form 2- nitro phenol and 4-nitro phenol.



4) From Sulphonation:

Benzene is reacting with oleum to form Benzene sulphonic acid

Benzene sulphonic acid reacting with sodium hydroxide to form phenol.

