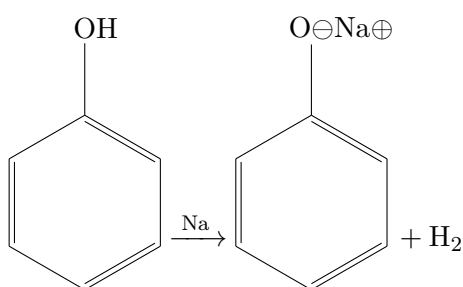

List of reactions exhibited by phenols on the basis of reaction by structure of phenol

- Reactions of hydroxy group
- Reaction of benzene nucleus
- Reaction characteristics of phenol

List of reactions exhibited by phenols on reactions of hydroxy group

- Sodium metal
- Alkylation
- Ammonia
- Acetylation
- Benzoylation
- Phosphorus penta chloride

Expression for reaction of hydroxy group of phenol in sodium metal



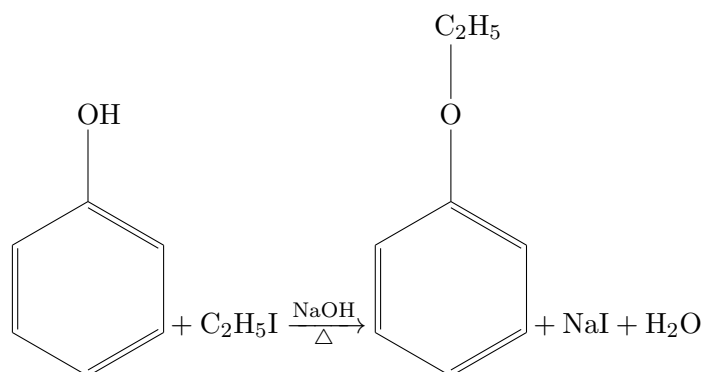
Reactants for reaction of hydroxy group of phenol in sodium metal

- Phenol
- Sodium Metal

Products for reaction of hydroxy group of phenol in sodium metal

- Sodium phenoxide
- Hydrogen

Expression for reaction of hydroxy group of phenol in alkylation



Reactants for reaction of hydroxy group of phenol in alkylation

- Phenol
- Iodoethane

Products for reaction of hydroxy group of phenol in alkylation

- Phenetole
- Sodium iodide
- Water

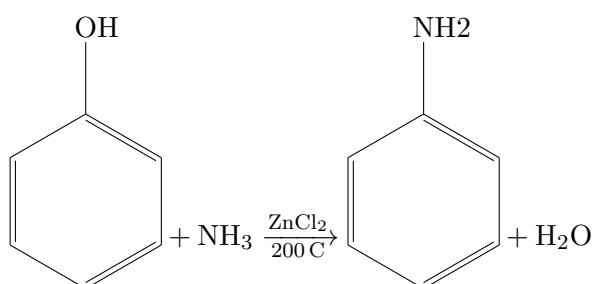
Molecular formula of phenetole

Phenyl ethyl ether

Conditions for reaction of hydroxy group of phenol in alkylation

- Sodium hydroxide
- Heat

Expression for reaction of hydroxy group of phenol in ammonia



Reactants for reaction of hydroxy group of phenol in ammonia

- Phenol
- Ammonia

Products for reaction of hydroxy group of phenol in ammonia

- Aniline
- Water

Conditions for reaction of hydroxy group of phenol in ammonia

- Zinc chloride

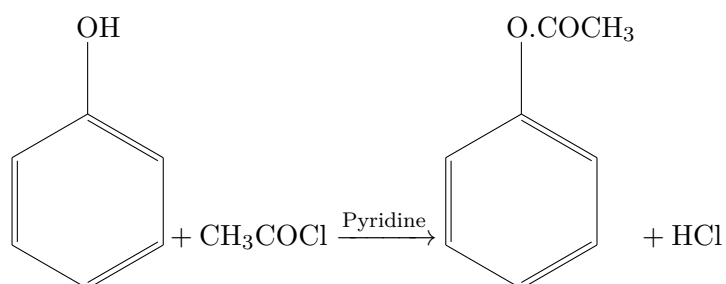
Temperature for reaction of hydroxoy group of phenol in ammonia

200 degree celsius

List of reactions on the basis of reagents in acetylation of phenol

- Acetyl chloride
- Acetic anhydride

Expression for reaction of hydroxy group of phenol in acetyl chloride



Reactants for reaction of hydroxy group of phenol in acetyl chloride

- Phenol
- Acetyl chloride

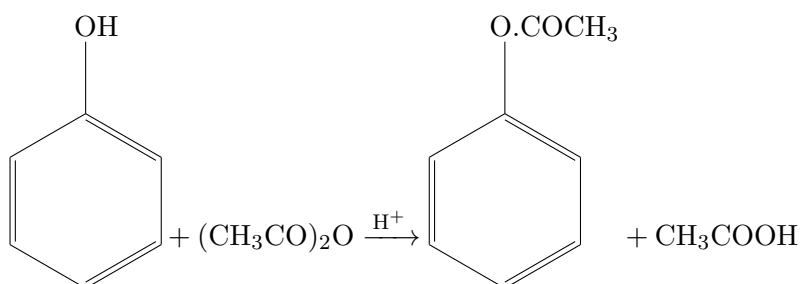
Products for reaction of hydroxy group of phenol in acetyl chloride

- Phenylethanoate
- Hydrochloric acid

Conditions for reaction of hydroxy group of phenol in acetyl chloride

- Pyridine

Expression for reaction of hydroxy group of phenol in acetic anhydride



Reactants for reaction of hydroxy group of phenol in acetic anhydride

- Phenol
- Acetic anhydride

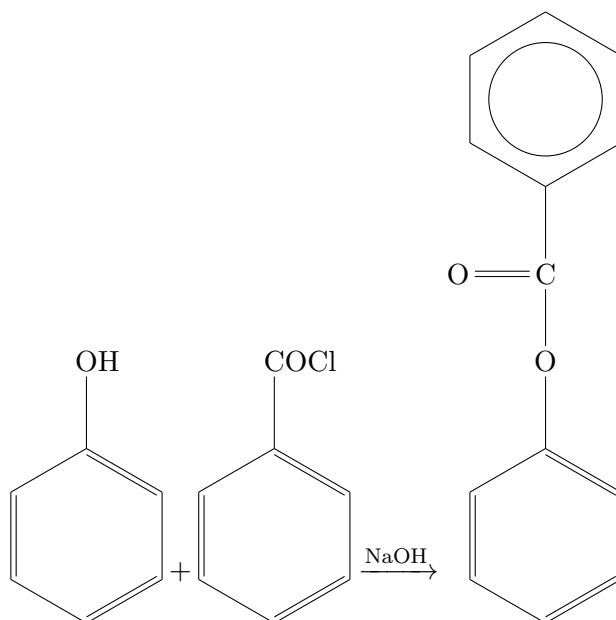
Products for reaction of hydroxy group of phenol in acetic anhydride

- Phenyl ethanoate
- Ethanoic / Acidic acid

Conditions for reaction of hydroxy group of phenol in acetic anhydride

- Acidic condition / Hydrogen ions

Expression for reaction of hydroxy group of phenol in benzylation



Reactants for reaction of hydroxy group of phenol in benzylation

- Phenol
- Benzoyl chloride

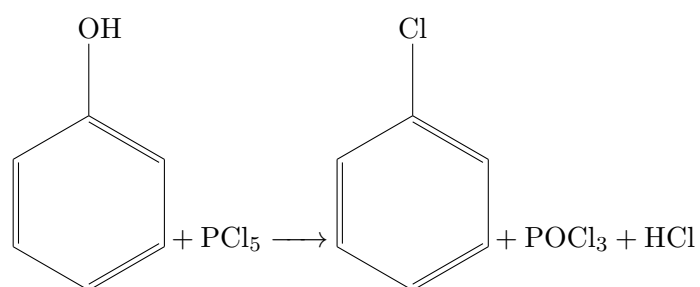
Products for reaction of hydroxy group of phenol in benzylation

- Phenyl benzoate

Conditions for reaction of hydroxy group of phenol in benzylation

- Sodium hydroxide

Expression for reaction of hydroxy group of phenol in phosphorus penta chloride



Reactants for reaction of hydroxy group of phenol in phosphorus penta chloride

- Phenol
- Phosphorus penta chloride

Products for reaction of hydroxy group of phenol in phosphorus penta chloride

- Chlorobenzene
- Phosphoryl chloride
- Hydrochloric acid