

b) **Reaction with Sodium Hydroxide**: Formation of phenols.

c) **Reaction with Sodium**: Formation of biphenyls (Wurtz-Fittig reaction).

- Important Name Reactions:

a) **Fittig Reaction**: Formation of biphenyl from haloarenes and sodium.

b) **Gattermann-Koch Reaction**: Forming aromatic aldehydes from haloarenes.

3. Important Conversions:

- **Haloalkane to Alcohol**: Use **KOH (aq)** for nucleophilic substitution.

- **Haloalkane to Alkene**: Use **Alcoholic KOH** for elimination reaction (E2 mechanism).

- **Haloalkane to Amine**: Use **Ammonia (NH₃)** under pressure for nucleophilic substitution.

- **Haloarene to Phenol**: Use **Sodium Hydroxide (NaOH)** to replace halogen with OH group.

- **Haloarene to Biphenyl**: Use **Sodium metal (Na)** in dry ether (Wurtz-Fittig reaction).

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