



TOPIC 18 EXERCISE 1 – AROMATIC CHEMISTRY

- Describe the shape of, and bonding in, a molecule of benzene
 - Explain why benzene does not readily undergo addition reactions
- Deduce the main organic products of the following reactions:
 - benzene with nitric acid in the presence of sulphuric acid
 - benzene with propanoyl chloride in the presence of aluminium chloride
 - nitrobenzene with tin and concentrated hydrochloric acid
- Give mechanisms for the reactions in (a) and (b)
- Explain why phenylamine is a weaker base than ethylamine
- Give a use for the following techniques in aromatic chemistry:
 - nitration of benzene
 - preparation of phenylamine

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