

Properties of benzene:

- Clear, colourless, non-polar liquid at r.t.p
- Volatile and has a low b.p.
- Relatively unreactive due to strong bonding
 - o Catalyst and/ or heating required

Reactions involving benzene and its derivatives:

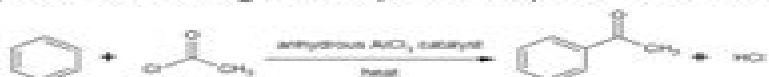
- Electrophilic substitution
 - o **Halogenation**
 - A hydrogen atom on an organic compound is replaced with one halogen group



- o **Alkylation**
 - Hydrogen atom on an organic compound is replaced with one alkyl group



- o **Acylation**
 - A hydrogen atom on an organic compound is replaced with one acyl group



- o **Nitration**
 - A hydrogen atom on an organic compound is replaced with one nitro (-NO₂) group



Summary of reagents and conditions: Electrophilic Substitution

Reaction	Electrophile	Reagents	Conditions
Halogenation	halogen ion, X ⁺	halogen gas bubbled through benzene	heat, anhydrous AlX ₃ catalyst
Alkylation	R ⁺ (where R = alkyl)	halogenoalkane	heat, anhydrous AlX ₃ catalyst
Acylation	RCO ⁺ (where R = alkyl)	acyl halide	heat, anhydrous AlX ₃ catalyst
Nitration	nitronium ion, NO ₂ ⁺	conc. HNO ₃ (if reacting with phenol: dil. or conc. HNO ₃)	25-60 °C, conc. H ₂ SO ₄ catalyst

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Table of Contents A2 Empa Notes Chemistry

1. Understanding the eBook A2 Empa Notes Chemistry
 - The Rise of Digital Reading A2 Empa Notes Chemistry
 - Advantages of eBooks Over Traditional Books
2. Identifying A2 Empa Notes Chemistry
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an A2 Empa Notes Chemistry
 - User-Friendly Interface
4. Exploring eBook Recommendations from A2 Empa Notes Chemistry
 - Personalized Recommendations
 - A2 Empa Notes Chemistry User Reviews and Ratings
 - A2 Empa Notes Chemistry and Bestseller Lists
5. Accessing A2 Empa Notes Chemistry Free and Paid eBooks
 - A2 Empa Notes Chemistry Public Domain eBooks
 - A2 Empa Notes Chemistry eBook Subscription Services
 - A2 Empa Notes Chemistry Budget-Friendly Options

6. Navigating A2 Empa Notes Chemistry eBook Formats
 - ePub, PDF, MOBI, and More
 - A2 Empa Notes Chemistry Compatibility with Devices
 - A2 Empa Notes Chemistry Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of A2 Empa Notes Chemistry
 - Highlighting and Note-Taking A2 Empa Notes Chemistry
 - Interactive Elements A2 Empa Notes Chemistry
8. Staying Engaged with A2 Empa Notes Chemistry
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers A2 Empa Notes Chemistry
9. Balancing eBooks and Physical Books A2 Empa Notes Chemistry
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection A2 Empa Notes Chemistry
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine A2 Empa Notes Chemistry
 - Setting Reading Goals A2 Empa Notes Chemistry
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of A2 Empa Notes Chemistry
 - Fact-Checking eBook Content of A2 Empa Notes Chemistry
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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