

## WURTZ REACTION



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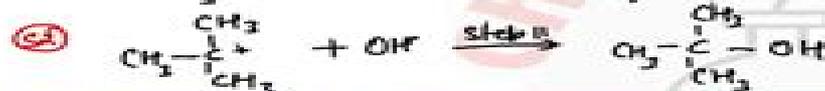


## Nucleophilic Substitution Reaction:

when an atom or group of atom is replaced by nucleophile



## SN<sup>1</sup> (Unimolecular Nucleophilic)



## Reactivity order: 3° > 2° > 1°

- Polar protic solvent is used
- Racemisation takes place

R-X	$\xrightarrow{\text{AgNO}_3}$	R-OH + KX	Williamson Syn
	$\xrightarrow{\text{RONa}}$	R-O-R + NaX	
	$\xrightarrow{\text{KCN}}$	R-CN + KX	
	$\xrightarrow{\text{AgCN}}$	R-NC + AgX	
	$\xrightarrow{\text{KNO}_2}$	R-ONO + KX	
	$\xrightarrow{\text{AgNO}_2}$	R-NO <sub>2</sub> + AgX	
	$\xrightarrow{\text{NH}_3/\Delta}$	R-NH <sub>2</sub> + HX	
	$\xrightarrow{\text{R}'\text{COOAg}}$	R-COOR' + AgX	

KCN is predominantly ionic, the attachment takes place mainly through carbon atom and thus form cyanide  
 AgCN is covalent in nature nitrogen is free to donate the e<sup>-</sup> pair forming isocyanide.

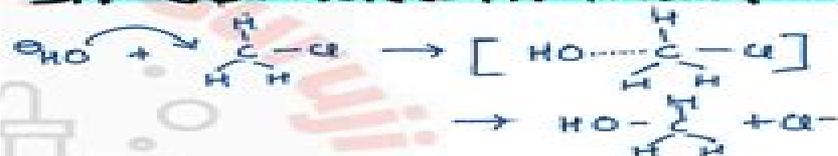
## Resonance in Haloarenes:

(2)

Aryl Halides are less reactive towards Nucleophilic substitution reaction because C-C bond acquire partial double bond due to resonance as a result the bond cleavage in Haloarenes is difficult than halo alkanes.



## SN<sup>2</sup> (Bimolecular Nucleophilic)

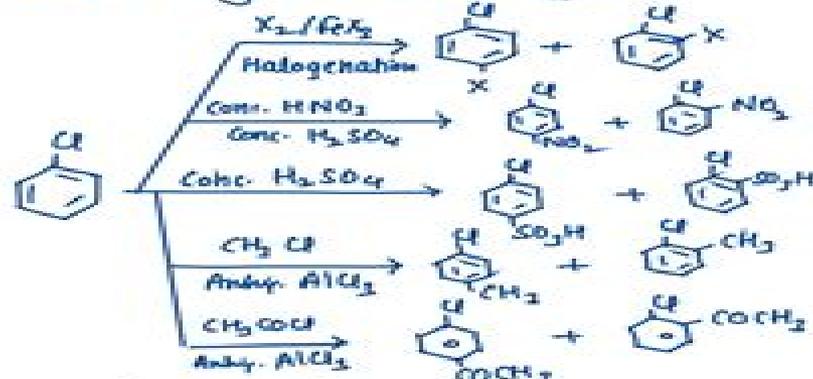


## Reactivity order: 1° > 2° > 3°

- Inversion of Config. takes place
- Nucleophile attack from opp. side

## Electrophilic Substitution Rxn

Halo group on benzene ring is ortho and para directing due to +R effect



Para isomer is the major product

# Notes For Std 12 Chemistry For

**WJ Hussar**

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## **Table of Contents Notes For Std 12 Chemistry For**

1. Understanding the eBook Notes For Std 12 Chemistry For
  - The Rise of Digital Reading Notes For Std 12 Chemistry For
  - Advantages of eBooks Over Traditional Books
2. Identifying Notes For Std 12 Chemistry For
  - 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 Notes For Std 12 Chemistry For
  - User-Friendly Interface

- 
4. Exploring eBook Recommendations from Notes For Std 12 Chemistry For
    - Personalized Recommendations
    - Notes For Std 12 Chemistry For User Reviews and Ratings
    - Notes For Std 12 Chemistry For and Bestseller Lists
  5. Accessing Notes For Std 12 Chemistry For Free and Paid eBooks
    - Notes For Std 12 Chemistry For Public Domain eBooks
    - Notes For Std 12 Chemistry For eBook Subscription Services
    - Notes For Std 12 Chemistry For Budget-Friendly Options
  6. Navigating Notes For Std 12 Chemistry For eBook Formats
    - ePub, PDF, MOBI, and More
    - Notes For Std 12 Chemistry For Compatibility with Devices
    - Notes For Std 12 Chemistry For Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Notes For Std 12 Chemistry For
    - Highlighting and Note-Taking Notes For Std 12 Chemistry For
    - Interactive Elements Notes For Std 12 Chemistry For
  8. Staying Engaged with Notes For Std 12 Chemistry For
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Notes For Std 12 Chemistry For
  9. Balancing eBooks and Physical Books Notes For Std 12 Chemistry For
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Notes For Std 12 Chemistry For
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Notes For Std 12 Chemistry For
    - Setting Reading Goals Notes For Std 12 Chemistry For
    - Carving Out Dedicated Reading Time

- 
12. Sourcing Reliable Information of Notes For Std 12 Chemistry For
    - Fact-Checking eBook Content of Notes For Std 12 Chemistry For
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
  14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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