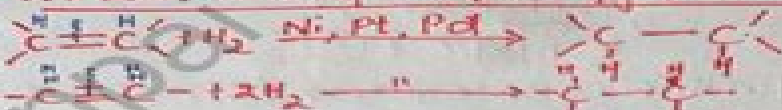


# HYDROCARBON

## # MOP of Alkane

### 1. From unsaturated hydrocarbon



DM  $\rightarrow$   $\pi$  bond ko H.H se tod do.

# exothermic

# ROR: Alkyne > Alkene

# 4 MCTS formed

# ROR  $\propto \frac{1}{s.H}$

# Syn addition

$\propto$  stability

# Add<sup>n</sup> of conj. diene



#  $\text{RaNi} \rightarrow$  alloy of Ni & Al in NaOH  
Galv. comp. better than Ni (at 100°C)

# If  $\text{RaNi}$  used  $\rightarrow$  Sabatier-Senderason's

#  $[\text{Rh}(\text{PPh}_3)_3\text{Cl}]$  used also

(Wilkinson's catalyst)

| Alkene | Addition | Product |
|--------|----------|---------|
| Cis    | Syn      | Erythro |
| Trans  | Syn      | Threo   |
| Cis    | Anti     | Threo   |
| Trans  | Anti     | Erythro |

### 2. From alkyl halide



# X hatoo H lagao.

# ROR:  $\text{R}-\text{Cl} < \text{R}-\text{Br} < \text{R}-\text{I}$  ROR  $\propto \frac{1}{BE}$

### 3. Wurtz reaction



produce higher alkane with even no. of 'C'

#  $\text{R}-\text{X} \rightarrow$  coupling

#  $\text{R}-\text{X} \rightarrow$  disproportionation

# in 2 molecular wurtz faster than in 2 molecular but prod should be stable i.e. A.A nahi banana hai.

# ROR  $\propto \frac{1}{s.H}$   $1^\circ \text{RX} > 2^\circ \text{RX} > 3^\circ \text{RX}$

# for same R:  $\text{RF} < \text{RCl} < \text{RBr} < \text{RI}$

### 4. Decarboxylation reaction



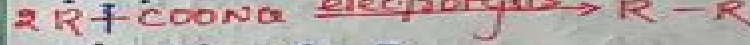
-COOH hatoo H lagao



-COONa hatoo H lagao

# ROR  $\propto$  stability of intermediate ( $\text{R}^\cdot$ )

### 5. Kolbe's electrolysis



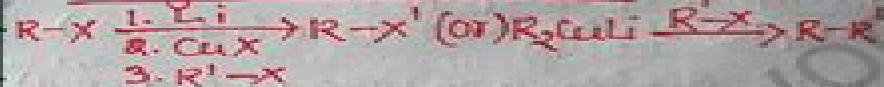
Cathode  $\rightarrow \text{H}_2$  Anode  $\rightarrow$  Alkane &  $\text{CO}_2$

### Addition Reaction

### 6. Frankland reaction



### 7. Coreyhouse reaction



# Attack of  $\text{R}^\cdot \rightarrow \text{RDS}$

# ROR  $\propto \frac{1}{s.H \text{ of } \text{R}'-\text{X}}$

# If same R:

$\text{R}-\text{F} < \text{R}-\text{Cl} < \text{R}-\text{Br} < \text{R}-\text{I}$

$\text{BE} \downarrow \rightarrow$  leaving tendency  $\uparrow$

# Chemistry Hydrocarbons Study Guide Answer Key

**Katherine J. Denniston**



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## **Table of Contents Chemistry Hydrocarbons Study Guide Answer Key**

1. Understanding the eBook Chemistry Hydrocarbons Study Guide Answer Key
  - The Rise of Digital Reading Chemistry Hydrocarbons Study Guide Answer Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Chemistry Hydrocarbons Study Guide Answer Key
  - 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 Chemistry Hydrocarbons Study Guide Answer Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from Chemistry Hydrocarbons Study Guide Answer Key
  - Personalized Recommendations



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

- 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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