

STUDY GUIDE 11: Oxidation and Reduction (Chapter 12)

Remember: Oxidation Cannot Occur Alone!

Oxidation: loss of electrons, decrease in O.C. Number (including 0,0 bonds).

Reduction: gain of electrons, increase in O.C. Number (including 0,0 bonds).



Be careful: some compounds can contain both oxidized and reduced carbons, but the overall reaction is still an oxidation or reduction.



PROBLEM 12-1: ALKYLATION

Reduction of 2,3-Pentanedione with LiAlH_4 .

Aluminum

Aluminum is a very electropositive metal (usually Al^{+3} , Al^{+2} , or Al^{+1}) which reacts with acids.



Procedure: Perfect alcohols (isopropanol) is produced by this reaction. Commercially, isopropanol is used for disinfectant.



Oxidation And Reduction Study Guide

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Table of Contents Oxidation And Reduction Study Guide

1. Understanding the eBook Oxidation And Reduction Study Guide
 - The Rise of Digital Reading Oxidation And Reduction Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Oxidation And Reduction Study Guide
 - 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 Oxidation And Reduction Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Oxidation And Reduction Study Guide
 - Personalized Recommendations
 - Oxidation And Reduction Study Guide User Reviews and Ratings
 - Oxidation And Reduction Study Guide and Bestseller Lists
5. Accessing Oxidation And Reduction Study Guide Free and Paid eBooks
 - Oxidation And Reduction Study Guide Public Domain eBooks
 - Oxidation And Reduction Study Guide eBook Subscription Services
 - Oxidation And Reduction Study Guide Budget-Friendly Options

6. Navigating Oxidation And Reduction Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Oxidation And Reduction Study Guide Compatibility with Devices
 - Oxidation And Reduction Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Oxidation And Reduction Study Guide
 - Highlighting and Note-Taking Oxidation And Reduction Study Guide
 - Interactive Elements Oxidation And Reduction Study Guide
8. Staying Engaged with Oxidation And Reduction Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Oxidation And Reduction Study Guide
9. Balancing eBooks and Physical Books Oxidation And Reduction Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Oxidation And Reduction Study Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Oxidation And Reduction Study Guide
 - Setting Reading Goals Oxidation And Reduction Study Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Oxidation And Reduction Study Guide
 - Fact-Checking eBook Content of Oxidation And Reduction Study Guide
 - 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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