



2. In solvent like H_2O



Vicinal dibromide formation :

Halohydrin formation

- It is a **regioselective** reaction
- The nucleophilic attack of the water occurs at the more substituted carbon atom.

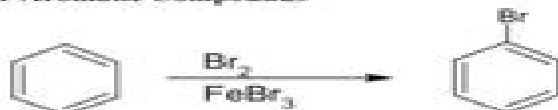
2. With Alkynes

- It is an **anti-addition** reaction:
- 1. In solvent like CCl_4 , CH_2Cl_2 etc



Tetrabromide formation

3. With Aromatic Compounds

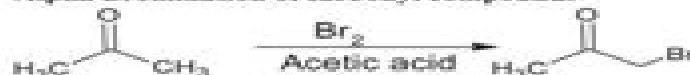


4. Photo halogenation of alkanes



Major

5. Alpha Bromination of carbonyl compounds



6. Oxidation of Monosaccharides

1. Bromine water is a mild oxidizing agent
2. selectively oxidizes the aldehyde group (for example CHO group of glucose) to a carboxylic acid.



7. Haloform Reaction

1. converts methyl ketones to Haloform (CHX_3 ($X=Cl, Br, I$)) and salt of carboxylic acids.



8. The Hoffmann Bromamide degradation

1. It converts primary amide to a primary amine with one less carbon atom.



9. Hell-Volhard-Zelinski (or HVZ) reaction



5. CN^-

Cyanide Ion and Nitrile Group

1. Conversion of Nitriles to a Primary Amine



2. Conversion of Nitriles to Aldehydes



3. Reaction of Nitriles with Grignard reagent



4. Hydrolysis of Nitriles to Carboxylic Acids



Ochem Reagent Guide

Marco Cascella



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Table of Contents Ochem Reagent Guide

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 - The Rise of Digital Reading Ochem Reagent Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Ochem Reagent 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 Ochem Reagent Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ochem Reagent Guide

- Personalized Recommendations
- Ochem Reagent Guide User Reviews and Ratings
- Ochem Reagent Guide and Bestseller Lists
- 5. Accessing Ochem Reagent Guide Free and Paid eBooks
 - Ochem Reagent Guide Public Domain eBooks
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 - Ochem Reagent Guide Budget-Friendly Options
- 6. Navigating Ochem Reagent Guide eBook Formats
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 - Interactive Elements Ochem Reagent Guide
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 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ochem Reagent Guide
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- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Ochem Reagent Guide
 - Setting Reading Goals Ochem Reagent Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Ochem Reagent Guide

- Fact-Checking eBook Content of Ochem Reagent 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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