

# FUNCTIONAL GROUPS IN ORGANIC CHEMISTRY

FUNCTIONAL GROUPS ARE GROUPS OF ATOMS IN ORGANIC MOLECULES THAT ARE RESPONSIBLE FOR THE CHARACTERISTIC CHEMICAL REACTIONS OF THOSE MOLECULES. IN THE GENERAL FORMULAE BELOW, 'R' REPRESENTS A HYDROCARBON GROUP OR HYDROGEN, AND 'X' REPRESENTS ANY HALOGEN ATOM.

● HYDROCARBONS ● SIMPLE OXYGEN HETEROATOMICS ● HALOGEN HETEROATOMICS ● CARBONYL COMPOUNDS ● NITROGEN BASED ● SULFUR BASED ● AROMATIC



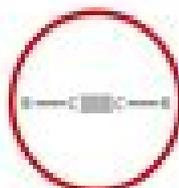
## ALKANE

Naming: -ane  
e.g. ethane



## ALKENE

Naming: -ene  
e.g. ethene



## ALKYNE

Naming: -yne  
e.g. ethyne



## ALCOHOL

Naming: -ol  
e.g. ethanol



## ETHER

Naming: -oxy-ane  
e.g. methoxyethane



## EPOXIDE

Naming: -ene oxide  
e.g. ethene oxide



## HALOALKANE

Naming: halo-  
e.g. chloroethane



## ALDEHYDE

Naming: -al  
e.g. ethanal



## KETONE

Naming: -one  
e.g. propanone



## CARBOXYLIC ACID

Naming: -oic acid  
e.g. ethanoic acid



## ACID ANHYDRIDE

Naming: -oic anhydride  
e.g. ethanoic anhydride



## ESTER

Naming: -yl -oate  
e.g. ethyl ethanoate



## AMIDE

Naming: -amide  
e.g. ethanamide



## ACYL HALIDE

Naming: -oyl halide  
e.g. ethanoyl chloride



## AMINE

Naming: -amine  
e.g. ethanamine



## NITRILE

Naming: -nitrile  
e.g. ethanenitrile



## IMINE

Naming: -imine  
e.g. ethanimine



## ISOCYANATE

Naming: -yl isocyanate  
e.g. ethyl isocyanate



## AZO COMPOUND

Naming: -azo-  
e.g. azoethane



## THIOL

Naming: -thiol  
e.g. methanethiol



## ARENE

Naming: -yl benzene  
e.g. ethyl benzene



# Functional Groups Chemistry Answers

**Lauren Gardner**



## **Functional Groups Chemistry Answers:**

This book delves into Functional Groups Chemistry Answers. Functional Groups Chemistry Answers is an essential topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Functional Groups Chemistry Answers, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Functional Groups Chemistry Answers
- Chapter 2: Essential Elements of Functional Groups Chemistry Answers
- Chapter 3: Functional Groups Chemistry Answers in Everyday Life
- Chapter 4: Functional Groups Chemistry Answers in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Functional Groups Chemistry Answers. This chapter will explore what Functional Groups Chemistry Answers is, why Functional Groups Chemistry Answers is vital, and how to effectively learn about Functional Groups Chemistry Answers.

3. In chapter 2, this book will delve into the foundational concepts of Functional Groups Chemistry Answers. This chapter will elucidate the essential principles that need to be understood to grasp Functional Groups Chemistry Answers in its entirety.

4. In chapter 3, the author will examine the practical applications of Functional Groups Chemistry Answers in daily life. This chapter will showcase real-world examples of how Functional Groups Chemistry Answers can be effectively utilized in everyday scenarios.

5. In chapter 4, the author will scrutinize the relevance of Functional Groups Chemistry Answers in specific contexts. The fourth chapter will explore how Functional Groups Chemistry Answers is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, this book will draw a conclusion about Functional Groups Chemistry Answers. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Functional Groups Chemistry Answers.

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