

# Naming Amines






## Amines

- Amines are organic compounds containing an  $\text{-NH}_2$  group.
- They derive from ammonia where an alkyl or aryl group substitutes for one or more hydrogen atoms of  $\text{NH}_3$ .

## Functional Group Priorities (Highest $\rightarrow$ Lowest)

- Carboxylic Acids
- Carboxylic Acid Derivatives
- Nitriles
- Aldehydes
- Ketones
- Alcohols
- Amines
- Alkenes
- Halogenoalkanes

## Derivatives of Ammonia

				
0 carbons	1 carbon directly attached	2 carbons	3 carbons	4 carbons
Ammonia (unique)	Primary (1°) amine	Secondary (2°) amine	Tertiary (3°) amine	Quaternary (4°) amine (ammonium)

Note: A  $\text{C=N}$  bond will effectively count as 2 carbons bonded to the nitrogen.

Note: Quaternary ammonium salts are derived from ammonia but not classed as amines.

## Naming Rules

- If the amine is the highest priority functional group, use the suffix  $\text{-amine}$ , e.g. propan-1-amine.
- If there is a higher priority functional group, use the prefix  $\text{amino-}$ , e.g. 2-aminopropanoic acid.

### Secondary Amines:

- The longest carbon chain attached to the nitrogen is named as the parent.
- Shorter chains are named as  $\text{N-substitutions}$ , e.g.  $\text{N-methylethanamine}$ .

### Tertiary Amines:

- The longest carbon chain attached to the nitrogen is named as the parent.
- Shorter chains are named as  $\text{N-substitutions}$ .
- 2  $\text{N-}$ prefixes are used to show both  $\text{N-substitutions}$ .
- The prefixes are named alphabetically, e.g.  $\text{N-ethyl-N-methylpropan-1-amine}$ .
- $\text{N,N-di-}$  is used for identical  $\text{R-groups}$ , e.g.  $\text{N,N-diethylphenylamine}$ .

## Aqa Chemistry Unit 3 2002

**Arthur A. Sandison, Southgate  
Publishers, Archie Gibb, Andrew  
Watson, Learning and Teaching  
Scotland**

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**Children's Books in Print, 2007**, 2006

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**Chemistry** Arthur A. Sandison, Southgate Publishers, Archie Gibb, Andrew Watson, Learning and Teaching Scotland, 2000

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## **Table of Contents Aqa Chemistry Unit 3 2002**

1. Understanding the eBook Aqa Chemistry Unit 3 2002
  - The Rise of Digital Reading Aqa Chemistry Unit 3 2002
  - Advantages of eBooks Over Traditional Books
2. Identifying Aqa Chemistry Unit 3 2002
  - 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 Aqa Chemistry Unit 3 2002
  - User-Friendly Interface
4. Exploring eBook Recommendations from Aqa Chemistry Unit 3 2002
  - Personalized Recommendations
  - Aqa Chemistry Unit 3 2002 User Reviews and Ratings
  - Aqa Chemistry Unit 3 2002 and Bestseller Lists
5. Accessing Aqa Chemistry Unit 3 2002 Free and Paid eBooks
  - Aqa Chemistry Unit 3 2002 Public Domain eBooks
  - Aqa Chemistry Unit 3 2002 eBook Subscription Services
  - Aqa Chemistry Unit 3 2002 Budget-Friendly Options
6. Navigating Aqa Chemistry Unit 3 2002 eBook Formats
  - ePub, PDF, MOBI, and More
  - Aqa Chemistry Unit 3 2002 Compatibility with Devices
  - Aqa Chemistry Unit 3 2002 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Aqa Chemistry Unit 3 2002
  - Highlighting and Note-Taking Aqa Chemistry Unit 3 2002
  - Interactive Elements Aqa Chemistry Unit 3 2002
8. Staying Engaged with Aqa Chemistry Unit 3 2002



- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Aqa Chemistry Unit 3 2002
9. Balancing eBooks and Physical Books Aqa Chemistry Unit 3 2002
- Benefits of a Digital Library
  - Creating a Diverse Reading Collection Aqa Chemistry Unit 3 2002
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Aqa Chemistry Unit 3 2002
- Setting Reading Goals Aqa Chemistry Unit 3 2002
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Aqa Chemistry Unit 3 2002
- Fact-Checking eBook Content of Aqa Chemistry Unit 3 2002
  - 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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