

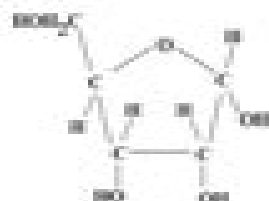
Biological Molecules

Organic and Inorganic compounds

- Organic compounds are based on _____ and are found in living things. There are a number of exceptions including hydrogen carbonate (HCO_3^-), carbon dioxide (CO_2) and Carbon monoxide (CO).
- _____ compounds are by default are all the molecules other than those in the category above.

Common organic molecules

Monosaccharide sugars. These are the _____ from which larger _____ molecules are constructed. Molecules like glucose and fructose are metabolically active molecules usually stored in an inactive, insoluble polysaccharide form.



Glucose: $\text{C}_6\text{H}_{12}\text{O}_6$ is a _____ sugar (six carbons) most commonly found in this ring structure.

Glucose will be known to most students as a product of _____ or the substrate molecule for _____.

Glucose is also found in a polymer form of starch, glycogen and cellulose.

All bonds are _____.

Glucose is a reducing sugar and will give positive (Brick red) precipitate in a _____ test.

Glucose is metabolically active compound

Glucose is _____ and has osmotic effects when in solution.

Ribose: _____ (5 carbon sugar).

A modified version of ribose, deoxyribose is perhaps best known for its role in Deoxyribonucleic acid or _____ where it forms part of the sugar phosphate backbone. The chemical properties of deoxyribose are very _____ from the properties of ribulose

Both Ribose and Glucose will attract water molecules (hydrogen bonding) when in solution.

***Use these keywords to fill the spaces**

Keywords

Proteins

Enzymes

Hexose

Monomers

Polymer

Respiration

Pentose

Twenty

Polypeptides

Covalent

Carbon

Photosynthesis

Inorganic

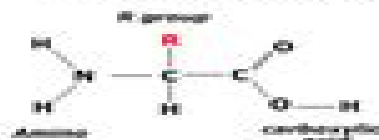
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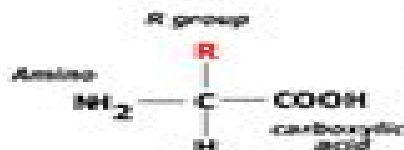
Benedict's

Soluble

Amino Acids: There are _____ common amino acids found in the protein structures of living things. Amino acids are monomers which combine to form the larger _____. In turn polypeptides combine to form _____. Proteins molecules are the basis of _____ and many cellular and extra cellular components.



This model shows the structure of the general amino acid. If you build one in a molecular kit you will appreciate better the 3D structure. Each of the common amino acids has the same structure as the one shown except that the R group is different. Amino acids are soluble.



This is an alternative way to draw the general amino acid structure.

This diagram illustrates the 'amino' group which is $-\text{NH}_2$

There is also the acidic group $-\text{COOH}$ which ionises in solution to form an $-\text{COO}^-$ and H^+ groups

This acid group is known as a carboxylic acid group

Biological Molecules Worksheet Pogil

T. Devasena



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Table of Contents **Biological Molecules Worksheet Pogil**

1. Understanding the eBook Biological Molecules Worksheet Pogil
 - The Rise of Digital Reading Biological Molecules Worksheet Pogil
 - Advantages of eBooks Over Traditional Books
2. Identifying Biological Molecules Worksheet Pogil
 - 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 Biological Molecules Worksheet Pogil
 - User-Friendly Interface
4. Exploring eBook Recommendations from Biological Molecules Worksheet Pogil
 - Personalized Recommendations
 - Biological Molecules Worksheet Pogil User Reviews and Ratings

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