

Biological Compounds

CHAPTER 23.4 REVIEW

Directions: Complete the table below by placing a check mark (\checkmark) in the column of each kind of organic compound that has each characteristic.

Characteristic	Protein	Nucleic acid	Carbohydrate	Lipid
1. hemoglobin is an example				
2. includes fats and oils				
3. polymers formed from amino acids				
4. is a polymer				
5. always contains carbon and hydrogen				
6. is made up of nucleotides				
7. DNA is one example				
8. makes up muscles, tendons, hair, and fingernails	•			
9. includes sugar				
10. its monomers contain –NH, and –COOH groups				
11. controls cell reproduction and activities				
12. ratio of hydrogen to oxygen is 2:1				
13. is held together with peptide bonds				
14. glucose is an example				
15. includes starches			15.	
16. includes cholesterol				
17. accounts for 15% of your weight				
18. made up of monomers				
19. molecule is ladder-shaped and twisted	7			
20. is an organic compound				

isomers

aromatic

hydrocarbons

Key Terms Organic Compounds

Directions: Complete the following sentences using the terms below.

nudeic proteins monomers 1. Biological polymers such as DNA and RNA are called ____ 2. Compounds that have the same chemical formula but different molecular structures are called _____ 3. _____ are compounds made up of only hydrogen and carbon. 4. Small molecules that form the links of a polymer chain are called 5. _____ are biological compounds formed from amino acids. 6. _____ compounds contain a benzene ring. **Directions:** Unscramble the terms in italics to complete the sentences below. Write the terms on the lines provided. 7. Biological compounds that include fats and oils are called diilps. 8. A hydrocarbon in which carbon atoms are joined only by single bonds is called a aadersttu hydrocarbon. 9. A hydrocarbon in which one or more hydrogen atoms are replaced by different elements is called a bdeisstttuu hydrocarbon. 10. Most compounds that contain carbon are considered to be acginor compounds. 11. aabCdehorrsty are biological compounds that include sugars and starches.