

Name: Valentina Da Silva Period _____**Chapter 3: The Molecules of Life***Guided Reading Activities***Chapter Content: Organic Compounds**

Complete the following questions as you read the third chapter content—Organic Compounds:

1. The element carbon is essential to an organic compound.

2. Is this molecule an organic compound? Briefly explain your answer.

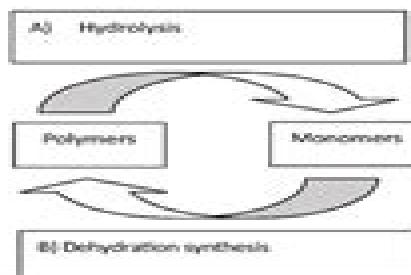


Yes, since there are carbon and hydrogen elements within the molecule.

3. The oxygen atom in ethyl alcohol (the molecule pictured above) forms a polar covalent bond with the hydrogen atom. This causes the hydroxyl functional group ($-\text{OH}$) to have polarity (it is polar). Based on this, would you expect ethyl alcohol to readily interact with water? Briefly explain your answer. *Hint—Think back to the end of chapter two.*

A functional group is a hydroxyl group. Ethanol interacts with water because the hydroxyl group imparts polarity to the ethanol, which permits it to be attracted to water.

4. Complete the following diagram using the following terms: dehydration reaction and hydrolysis.



Chapter 3 Guided Reading Answers

**Freda A. Adler, Adler, Gerhard O. W.
Mueller, William S. Laufer**

Chapter 3 Guided Reading Answers:

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of Chemistry A collection of additional topics at the end of each chapter allow instructors to supplement and tailor their courses according to individual need Three major themes link the content of the book the process of science the relationship between molecular structure and physical chemical properties and the relationship between the microscopic and macroscopic levels **The American Journey** Joyce Oldham Appleby,Alan Brinkley,James M. McPherson,2003

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