

# LAB: SHAPES OF COVALENT MOLECULES & POLARITY

## Introduction:

The most common chemical bond between two atoms is a **covalent bond**. The covalent bond consists of a pair of shared electrons, one from each atom. If this pair of electrons is shared between two atoms of equal electro negativities, the bond would be called a **nonpolar covalent bond**. However, in most cases, the pair of electrons is shifted toward the more electronegative element. A partial negative charge results on one side of the bond and a partial positive charge on the other. This type of covalent bond is called **polar covalent**.

Molecules composed of covalently bonded atoms may also be polar or nonpolar. For the molecule to be polar, it must, of course, have polar bonds. But the key factor for determining the polarity of a molecule is its shape. If the polar bonds (**dipoles**) are symmetrical around the central atom, they offset each other and the resulting molecule is nonpolar. However, if the dipoles are not symmetrical around the central atom, the electrons will be pulled to one end of this molecule and the resulting molecule is polar.

## Objectives:

- (1) Predict each molecule's shape using your knowledge of hybridization.
- (2) Predict each molecule's polarity on the basis of its shape.

## Equipment:

Paper and pencil

## Procedure:

1. Prepare a data table according to the directions in the Analysis section below.
2. Complete your data table using the following compounds:

1. $\text{H}_2$	5. $\text{SO}_2$	9. $\text{CH}_4$	13. $\text{CH}_2\text{Cl}$
2. $\text{HBr}$	6. $\text{CO}_2$	10. $\text{HClO}$	14. $\text{HCOOH}$
3. $\text{H}_2\text{O}$	7. $\text{H}_2\text{CO}$	11. $\text{O}_2$	15. $\text{CO}_3^{2-}$
4. $\text{NH}_3$	8. $\text{C}_2\text{H}_2$	12. $\text{AlH}_3$	16. $\text{NH}_4^+$

# Lab Shapes Of Covalent Molecules Answer Key

**Ralph Thomas Myers**



## **Lab Shapes Of Covalent Molecules Answer Key:**

**Biological Investigations Lab Manual** Warren Dolphin, David Vleck, Linda Westgate, James Colbert, 2010-01-27 The lead author of eight successful previous editions has brought together a team that combined has well over 60 years experience in offering beginning biology labs to several thousand students each year at Iowa State University Their experience and diverse backgrounds ensure that this extensively revised edition will meet the needs of a new generation of students Designed to be used with all majors level general biology textbooks the included labs are investigative using both discovery and hypothesis based science methods Students experimentally investigate topics observe structure use critical thinking skills to predict and test ideas and engage in hands on learning Students are often asked what evidence do you have that in order to encourage them to think for themselves By emphasizing investigative quantitative and comparative approaches to the topics the authors continually emphasize how the biological sciences are integrative yet unique An instructor s manual available through McGraw Hill Lab Central provides detailed advice based on the authors experience on how to prepare materials for each lab teachings tips and lesson plans and questions that can be used in quizzes and practical exams This manual is an excellent choice for colleges and universities that want their students to experience the breadth of modern biology

**Holt Chemistry** Ralph Thomas Myers, 2004

**Te HS&T a** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004-02

**Library of Congress Catalog: Motion Pictures and Filmstrips** Library of Congress, 1963 A cumulative list of works represented by Library of Congress printed cards

**Dictionary of Flavors** Dolf De Rovira, Sr., 2017-05-30 The third edition of this highly popular scientific reference continues to provide a unique approach to flavors flavor chemistry and natural products Dictionary of Flavors features entries on all flavor ingredients granted G R A S status compounds used in the formulation of food flavors and related food science and technology terms Allergies and intolerances are addressed along with strategies to avoid allergenic compounds This latest edition has been fully updated to reflect new ingredients available on the market as well as developments in safety standards and the international regulatory arena Dolf De Rovira applies his extensive experience to make this the most comprehensive guide to flavors available

**Films and Other Materials for Projection** Library of Congress, 1963

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