

Name: _____ Date: _____ Lab Section: _____

Experiment 2: Molecular Models

REPORT SHEET

Pre-lab Study Questions:

- Objectives of the experiment (in your own words):
- What kinds of electrons form the covalent bonds in molecules?
- Is a polar molecule symmetrical or asymmetrical?

FORMULA OF MOLECULE	LEWIS STRUCTURE	3-D SHAPE w/ lone pairs	MOLECULAR GEOMETRY	MOLECULAR POLARITY
example: CH ₄	$ \begin{array}{c} \text{H} \\ \\ \text{H}-\text{C}-\text{H} \\ \\ \text{H} \end{array} $		tetrahedral	nonpolar
H ₂ O	$ \begin{array}{c} \text{H} \quad \text{H} \\ \diagdown \quad \diagup \\ \text{O} \\ \diagup \quad \diagdown \\ \text{H} \quad \text{H} \end{array} $	$ \begin{array}{c} \text{H} \quad \text{H} \\ \diagdown \quad \diagup \\ \text{O} \\ \diagup \quad \diagdown \\ \text{H} \quad \text{H} \end{array} $	tetrahedral	polar
H ₂ O ⁺	$ \begin{array}{c} \text{H} \quad \text{H} \\ \diagdown \quad \diagup \\ \text{O} \\ \diagup \quad \diagdown \\ \text{H} \quad \text{H} \end{array} $	$ \begin{array}{c} \text{H} \quad \text{H} \\ \diagdown \quad \diagup \\ \text{O} \\ \diagup \quad \diagdown \\ \text{H} \quad \text{H} \end{array} $	tetrahedral	nonpolar
C ₂ H ₆				
C ₂ H ₄	$ \begin{array}{c} \text{H} \quad \text{H} \\ \diagdown \quad \diagup \\ \text{C}=\text{C} \\ \diagup \quad \diagdown \\ \text{H} \quad \text{H} \end{array} $		trigonal planar	non polar
C ₂ H ₂				
CO ₂	$ \begin{array}{c} \text{O}=\text{C}=\text{O} \end{array} $		Linear	Non polar
H ₂ O ₂				
CH ₃ Cl				

Lab 22 Models Molecular Compounds Answer

KJ Lindholm-Leary



Lab 22 Models Molecular Compounds Answer:

Chemistry Eugene LeMay, Jr., Herbert Beall, Karen M. Robblee, Douglas C. Brower, Prentice-Hall Staff, 2002-02

Polarity, Solutions, and Separation Science Kenda Jo Lemont, 1998 Selected Water Resources Abstracts , 1988-12

Nuclear Science Abstracts , 1976 *Scientific and Technical Aerospace Reports* , 1995 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database **Technical Abstract Bulletin** Defense Documentation Center (U.S.), 1963 Index Medicus , 2003 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings

Cumulated Index Medicus , 1987 ERDA Energy Research Abstracts United States. Energy Research and Development Administration, 1977-04 **ERDA Energy Research Abstracts** United States. Energy Research and Development Administration. Technical Information Center, 1976 **Publications of the National Bureau of Standards ... Catalog** United States. National Bureau of Standards, 1986 Energy Research Abstracts , 1993 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information Arranged under 39 categories e g Biomedical sciences basic studies Biomedical sciences applied studies Health and safety and Fusion energy Entry gives bibliographical information and abstract Corporate author subject report number indexes EPA Publications Bibliography United States. Environmental Protection Agency, 1994

Chemical News and Journal of Industrial Science , 1881 **The Chemical News and Journal of Industrial Science** , 1913 **U.S. Government Research Reports** , 1962 Compilation of EPA's Sampling and Analysis Methods, Second Edition Lawrence H. Keith, 1996-09-26 The popular first edition of this book contained approximately 600 analyte method summaries This new edition contains twice as many new EPA approved methods for testing and analyzing industrial chemicals pesticides herbicides dioxins and PCBs and is a printed version of the EPA s Sampling and Analysis Methods Database Each analyte method summary contains all of the information required to stand alone as a reference Thus in addition to a brief summary of each method descriptions include required instrumentation interferences sampling containers preservation techniques maximum holding times detection levels accuracy precision quality control requirements EPA reference and when available EPA contacts with phone numbers Each summarized report is a stand alone document Physics Briefs , 1994 *EPA Publications Bibliography Quarterly Abstract Bulletin* United States. Environmental Protection Agency, 1995-07

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Lab 22 Models Molecular Compounds Answer Introduction

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