

KEY

ACTUAL
STUDENT
RESULTS

TEAM
1

Chemistry Lab Experiment

Determination of the Molar Volume of a Gas

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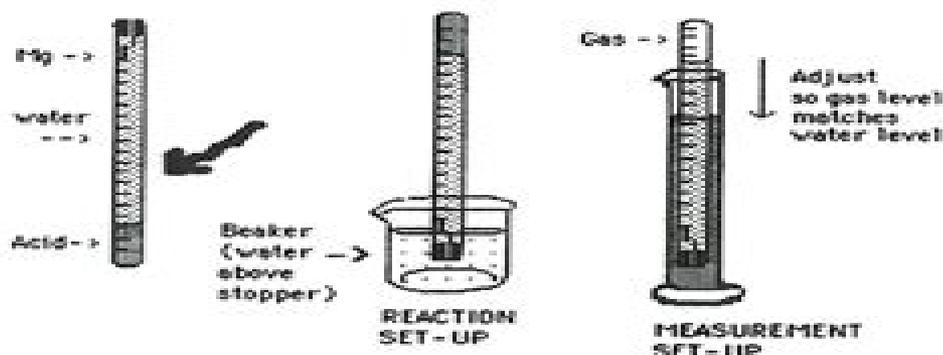
Name:

Lab Partner(s):

Purpose:

- To experimentally determine the molar volume of hydrogen gas and to compare it with the $\frac{22.4\text{-L}}{\text{mole}}$ theoretical STP value.
- To relate gas law concepts learned in MA Frameworks Topic 6 (e.g., the Combined Gas Law and Dalton's Law of Partial Pressures) to previously learned concepts involving balancing chemical equations and stoichiometric relationships.

Introduction:



The **water displacement method** can be used to capture the hydrogen gas liberated when a strip of magnesium metal reacts with a 3.0-*M* solution of hydrochloric acid. The total gas volume of H₂O vapor and H₂ adjusted to the room's barometric pressure can be determined from the **eudiometer** (graduated gas-measuring tube) by partially immersing the tube into a large container of water until the liquid level inside the tube matches the water level in the large container.

According to **Dalton's Law of Partial Pressures**, the total gas pressure in the eudiometer is the sum of the pressure of the hydrogen gas collected plus the **water vapor pressure**. Symbolically, $P_{\text{total}} = P_{\text{H}_2} + P_{\text{H}_2\text{O}}$. Subtracting the water vapor pressure from the total pressure gives the pressure of the dry hydrogen gas.

Chemistry Molar Volume Of Hydrogen Lab Answers

Katrin Zwirgmaier



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Nuclear Science Abstracts ,1960 *Chemistry* Eugene LeMay, Jr.,Herbert Beall,Karen M. Robblee,Douglas C. Brower,Prentice-Hall Staff,2002-02 Merrill Laboratory Chemistry L. Neal Carmichael,David F. Haines,1990-10 **Chem C&A Chemla&Min Wksh** McGraw-Hill Education,1996-08 American Men of Science ,1949 **Government Reports Announcements** ,1972 Government Reports Announcements & Index ,1988 British Abstracts ,1926 **Indian Science Abstracts** ,2006-07 Current Programs ,1977 *Russian Journal of Physical Chemistry* ,1986 **Energy Research Abstracts** ,1989 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 **Theoretical Chemical Engineering Abstracts** ,1986 British Chemical Abstracts ,1926 *Jbc, the Journal of Biological Chemistry: Classics biochemistry and molecular biology of the 20th century, 1905 to present* ,2006 Process and Chemical Engineering ,1995 Government Reports Announcements & Index ,1989-03 **Faculties, Publications, and Doctoral Theses in Chemistry and Chemical Engineering at United States Universities** American Chemical Society. Committee on Professional Training,1991 **Physics Briefs** ,1990 **INIS Atomindex** ,1983

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