

Determining a Molar Volume

A Safer Experiment



Introduction

The traditional method for calculating molar volumes involves generating oxygen gas—potassium chlorate is heated with manganese dioxide, a catalyst, to produce oxygen gas. This method is quite hazardous because large amounts of oxygen gas are produced and potassium chlorate is a powerful oxidizer of organic materials including the rubber stopper used in the set-up. In fact, potassium chlorate is a frequent source of accidents on school premises. An easier and safer method presented in this laboratory activity for the calculation of molar volumes involves the use of carbon dioxide instead of oxygen gas.

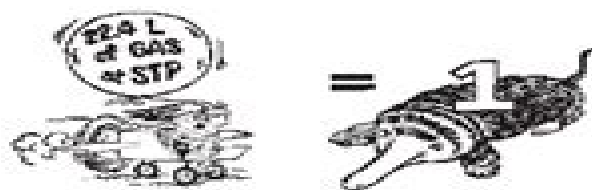
Concepts

- Mole
- Molar volume
- Ideal gas law

Materials

Dry ice, solid carbon dioxide, CO_2 , small piece about 3" square
Balance
Barometer
Erlenmeyer flask, Pyrex®, 125-mL

Graduated cylinder, 500-mL
Rubber stopper, to fit Erlenmeyer flask
Thermometer
Tongs or insulated gloves (Zetex®)



Safety Precautions

This activity requires the use of hazardous components and/or has the potential for hazardous reactions. Dry ice can cause frostbite; never touch dry ice directly with the skin; wear appropriate insulated gloves or use tongs whenever handling dry ice. Do not stopper the flask until all of the dry ice has sublimed. Failure to wait until all solid pieces are gone may cause the flask to shatter due to increased pressure. Wear chemical splash goggles, chemical-resistant gloves, and a chemical-resistant apron. Please review current Material Safety Data Sheets for additional safety, handling, and disposal information.

Procedure

1. Place the stopper in the Pyrex Erlenmeyer flask and mass to the nearest 0.01 g. Record this mass in the data table as the mass of the stoppered flask plus air. Recall that the flask is not actually empty—it contains air.
2. Remove the stopper. Using tongs, or while wearing insulated gloves, place a small piece of dry ice in the Erlenmeyer flask. Do not stopper the flask at this point.
3. Gently swirl the flask to aid in the sublimation of the dry ice.
4. Immediately after the last bit of dry ice has just sublimated and disappeared, tightly stopper the flask. Mass the flask and record this mass in the data table as the mass of the stoppered flask plus CO_2 .
5. Remove the stopper and fill the Erlenmeyer flask to the top lip with water. Stopper the flask again. Wipe any water off of the outside of the flask.
6. Remove the stopper from the flask. Pour the water into a large graduated cylinder and measure the volume of water. The volume of water is equal to the volume of air (Step 1) or CO_2 (Step 4) in the flask. Record this volume in liters in the data table.
7. Record the room temperature in degrees Kelvin and the atmospheric pressure in atm in the data table.
8. Record the density of air in the data table. The density of air is both temperature and pressure dependent. This value can be found in a chemistry textbook or reference manual if the temperature and pressure are known.
9. Calculate the mass of air in the flask by using the relationship that the density of air (Step 8) is equal to the mass of air

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Lingsheng Yao

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1. Understanding the eBook Flinn Sci Determine Molar Volume Lab
 - The Rise of Digital Reading Flinn Sci Determine Molar Volume Lab
 - Advantages of eBooks Over Traditional Books
2. Identifying Flinn Sci Determine Molar Volume Lab
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Flinn Sci Determine Molar Volume Lab
 - User-Friendly Interface
4. Exploring eBook Recommendations from Flinn Sci Determine Molar Volume Lab
 - Personalized Recommendations
 - Flinn Sci Determine Molar Volume Lab User Reviews and Ratings
 - Flinn Sci Determine Molar Volume Lab and Bestseller Lists
5. Accessing Flinn Sci Determine Molar Volume Lab Free and Paid eBooks
 - Flinn Sci Determine Molar Volume Lab Public Domain eBooks
 - Flinn Sci Determine Molar Volume Lab eBook Subscription Services
 - Flinn Sci Determine Molar Volume Lab Budget-Friendly Options

6. Navigating Flinn Sci Determine Molar Volume Lab eBook Formats
 - ePub, PDF, MOBI, and More
 - Flinn Sci Determine Molar Volume Lab Compatibility with Devices
 - Flinn Sci Determine Molar Volume Lab Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Flinn Sci Determine Molar Volume Lab
 - Highlighting and Note-Taking Flinn Sci Determine Molar Volume Lab
 - Interactive Elements Flinn Sci Determine Molar Volume Lab
8. Staying Engaged with Flinn Sci Determine Molar Volume Lab
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Flinn Sci Determine Molar Volume Lab
9. Balancing eBooks and Physical Books Flinn Sci Determine Molar Volume Lab
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Flinn Sci Determine Molar Volume Lab
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Flinn Sci Determine Molar Volume Lab
 - Setting Reading Goals Flinn Sci Determine Molar Volume Lab
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Flinn Sci Determine Molar Volume Lab
 - Fact-Checking eBook Content of Flinn Sci Determine Molar Volume Lab
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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