

# 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,  $\text{CO}_2$ , 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  $\text{CO}_2$ .
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  $\text{CO}_2$  (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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Manual of Molecular and Clinical Laboratory Immunology John L. Schmitz, Barbara Detrick, Maurice R.

O'Gorman, 2024-12-24 THE authoritative guide for clinical laboratory immunology For nearly 50 years the Manual of Molecular and Clinical Laboratory Immunology has been the premier resource for laboratories students and professionals involved in the clinical and technical details of diagnostic immunology testing The 9th Edition continues its tradition of providing comprehensive clinical and technical information on the latest technologies used in medical and diagnostic immunology Led by a world renowned group of authors and editors this new edition reflects substantial changes aimed at

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Cumulated Index Medicus, 1964

**Scientific and Technical Aerospace Reports**, 1992

**Rock-Forming**

**Minerals: Orthosilicates, Volume 1A** William Alexander Deer, W. A. Deer, Robert Andrew Howie, J. Zussman, 1982-12-01. A second edition in two parts of Volume 1 of this well-known reference series. This volume deals mainly with the olivine and garnet groups and also the humite group, zircon, sphene, vesuvianite, the  $Al_2SiO_5$  including mullite, topaz, staurolite, and chloritoid. The disilicates and ring silicates are covered in Volume 1B. In the years since the first edition was published, the quantity and scope of research on the olivines, garnets, and the aluminosilicates has grown enormously and has given rise to a wide variety of literature. This book, which has been completely rewritten and considerably expanded, summarizes the important research results and presents them in an organized fashion. Each mineral chapter is divided into sections on structure, chemistry, optical and physical properties, distinguishing features, and paragenesis. Each chapter is headed by a tabulation of mineral data and a sketch showing optical orientation and concludes with full references to the literature. Diagrams of the crystal structures are presented and are followed by a discussion of the structural features. The chemical sections include a large number of analyses from which structural formulae have been calculated, illustrating the chemical and paragenetical variation exhibited by each mineral phase. Equilibria in relevant systems are fully considered. In the sections on optical and physical properties, particular attention is paid to the correlation of these properties with chemical composition. The principal modes of occurrence are described and discussed in the paragenesis sections here again.

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*Energy Research Abstracts* ,1977      **The Molecular Pathology of Cognitive Decline: Focus on Metals** Paul A. Adlard,Roger Chung,2016-02-02 In the past two decades there have been significant advances made in understanding the cellular and molecular alterations that occur with brain ageing as well as with our understanding of age related brain diseases Ageing is associated with a mid life decline in many cognitive domains eg Attention working memory episodic memory that progresses with advancing age and which may be potentiated by a variety of diseases However despite the breadth of attempts to explain it the underlying basis for age related memory impairment remains poorly understood Both normal and pathological ageing as in age related neurodegenerative disorders such as Alzheimer s disease may be associated with overlapping and increased levels of abnormal pathology and this may be a potential mediator of cognitive decline in both populations An emerging hypothesis in this field is that metal ion dys homeostasis may represent a primary unifying mechanism to explain age and disease associated memory impairment either indirectly via an effect on disease pathogenesis or by a direct effect on signaling pathways relevant to learning and memory There remains a concerted worldwide effort to deliver an effective therapeutic treatment for cognitive decline associated with ageing and or disease which is currently an unmet need There have been numerous clinical trials conducted specifically testing drugs to prevent cognitive decline and progression to dementia but to date the results have been less than impressive highlighting the urgent need for a greater understanding of the neurobiological basis of memory impairment in ageing and disease which can then drive the search for effective therapeutics      **Membrane Science and Technology** J. Flinn,2012-12-06 This book is a collection of papers derived from a conference on membranes held at the Columbus Laboratories of Battelle Memorial Institute in Columbus Ohio on October 20 and 21 1969 When a decision is made to sponsor a membrane conference the problem immediately arises as to what aspect of the technology needs to be emphasized There were several alternatives from which to choose The Office of Saline Water for example has been sup porting for many years a tremendous volume of research on the desalination of sea and brackish water In fact were it not for this effort the conference which resulted in this book could probably not have been held Regardless one could not easily choose to hold a conference on water desalting because the subject is adequately covered in the literature and yearly conferences are sponsored by the funding agency Other government agencies specifically The National Heart and Lung Institutes and The National Institute of Arthritis and Metabolic Diseases have supported a sizable number of research programs involving the use of membranes for biomedical devices useful in blood oxygenation and kidney augmentation or replacement Again these groups have their own outlets for disseminating research results Still other choices existed among such areas as permeation processes for petroleum separations advanced or novel membrane process concepts or characterization of membranes morphology permeation prop erties etc or biological membranes None of these areas seemed to provide just the right technological emphasis

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## **Table of Contents Flinn Sci Molar Volume Lab**

1. Understanding the eBook Flinn Sci Molar Volume Lab
  - The Rise of Digital Reading Flinn Sci Molar Volume Lab
  - Advantages of eBooks Over Traditional Books
2. Identifying Flinn Sci 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 Molar Volume Lab
  - User-Friendly Interface
4. Exploring eBook Recommendations from Flinn Sci Molar Volume Lab
  - Personalized Recommendations
  - Flinn Sci Molar Volume Lab User Reviews and Ratings
  - Flinn Sci Molar Volume Lab and Bestseller Lists

5. Accessing Flinn Sci Molar Volume Lab Free and Paid eBooks
  - Flinn Sci Molar Volume Lab Public Domain eBooks
  - Flinn Sci Molar Volume Lab eBook Subscription Services
  - Flinn Sci Molar Volume Lab Budget-Friendly Options
6. Navigating Flinn Sci Molar Volume Lab eBook Formats
  - ePub, PDF, MOBI, and More
  - Flinn Sci Molar Volume Lab Compatibility with Devices
  - Flinn Sci Molar Volume Lab Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Flinn Sci Molar Volume Lab
  - Highlighting and Note-Taking Flinn Sci Molar Volume Lab
  - Interactive Elements Flinn Sci Molar Volume Lab
8. Staying Engaged with Flinn Sci Molar Volume Lab
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Flinn Sci Molar Volume Lab
9. Balancing eBooks and Physical Books Flinn Sci Molar Volume Lab
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Flinn Sci Molar Volume Lab
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Flinn Sci Molar Volume Lab
  - Setting Reading Goals Flinn Sci Molar Volume Lab
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Flinn Sci Molar Volume Lab
  - Fact-Checking eBook Content of Flinn Sci 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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