

# 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

# Flinn Sci Molar Volume Lab

**Y Pai**



## **Flinn Sci Molar Volume Lab:**

Chemistry in the Laboratory James M. Postma, Julian L. Robert, J. Leland Hollenberg, 2004-03-12 This clearly written class tested manual has long given students hands on experience covering all the essential topics in general chemistry Stand alone experiments provide all the background introduction necessary to work with any general chemistry text This revised edition offers new experiments and expanded information on applications to real world situations *The American Biology Teacher* ,2005 *Kentucky Law Journal* ,2011 *Nuclear Science Abstracts* ,1967 **Handbook of Measurement in Science and Engineering, Volume 3** Myer Kutz, 2016-06-17 A multidisciplinary reference of engineering measurement tools techniques and applications When you can measure what you are speaking about and express it in numbers you know something about it but when you cannot measure it when you cannot express it in numbers your knowledge is of a meager and unsatisfactory kind it may be the beginning of knowledge but you have scarcely in your thoughts advanced to the stage of science Lord Kelvin Measurement is at the heart of any engineering and scientific discipline and job function Whether engineers and scientists are attempting to state requirements quantitatively and demonstrate compliance to track progress and predict results or to analyze costs and benefits they must use the right tools and techniques to produce meaningful data The Handbook of Measurement in Science and Engineering is the most comprehensive up to date reference set on engineering and scientific measurements beyond anything on the market today Encyclopedic in scope Volume 3 covers measurements in physics electrical engineering and chemistry Laser Measurement Techniques Magnetic Force Images using Capacitive Coupling Effect Scanning Tunneling Microscopy Measurement of Light and Color The Detection and Measurement of Ionizing Radiation Measuring Time and Comparing Clocks Laboratory Based Gravity Measurement Cryogenic Measurements Temperature Dependent Fluorescence Measurements Voltage and Current Transducers for Power Systems Electric Power and Energy Measurement Chemometrics for the Engineering and Measurement Sciences Liquid Chromatography Mass Spectroscopy Measurements of Nitrotyrosine Containing Proteins Fluorescence Spectroscopy X Ray Absorption Spectroscopy Nuclear Magnetic Resonance NMR Spectroscopy Near Infrared NIR Spectroscopy Nanomaterials Properties Chemical Sensing Vital for engineers scientists and technical managers in industry and government Handbook of Measurement in Science and Engineering will also prove ideal for academics and researchers at universities and laboratories

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

improving and updating the Manual's utility while reflecting the significant transformations that have occurred since the last edition including the revolution of gene editing and the widespread adoption of molecularly engineered cellular therapies. Topical highlights include Laboratory Management: three new chapters cover essential aspects of quality assurance, quality improvement, and quality management, aligning with the increasingly stringent and demanding regulatory environment. Inborn Errors of Immunity: the primary immunodeficiency section has been completely updated to align with the latest International Union of Immunological Societies classifications of inborn errors of immunity. Functional Cellular Assays: expanded content includes detailed discussions on various functional assays critical for modern immunologic testing. Autoimmune Diseases: expanded chapters on systemic and organ-specific autoimmune disorders, including new chapters on Sjögren's syndrome and deficiency of ADA2, as well as significant updates on organ-specific autoimmune diseases. Transplantation Immunology: updated chapters detail the assessment of immune reconstitution and ABO testing, reflecting latest practices. The 9th Edition of the Manual of Molecular and Clinical Laboratory Immunology serves as an invaluable resource for laboratory directors, clinicians, laboratory managers, technologists, and students. It provides critical insights into the selection, application, and interpretation of immunologic tests, offering practical guidance on troubleshooting clinical application and an understanding of test limitations. This comprehensive and up-to-date manual remains an essential tool for anyone involved in the diagnosis, evaluation, and management of immune-mediated and immune system-related disorders.

**Cumulated Index Medicus**, 1964      **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, correlation with chemistry is emphasized. 11 volumes are

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