

# Target Stoichiometry Lab

## Mole Relationships and the Balanced Equation



### Introduction

A simple decomposition reaction of sodium bicarbonate (baking soda) presents the opportunity for students to test their knowledge of stoichiometry, limiting reagents, and the mole concept. This outcome-based lab requires the students to precisely predict the mass of the solid product. An electronic balance will reveal how close the students come to their "target" and determines their grades.

### Concepts

- Mole concept
- Stoichiometry
- Balanced chemical equation

### Materials

#### For each student group

- Sodium bicarbonate,  $\text{NaHCO}_3$ , 5–6 g
- Universal indicator solution, a few drops
- Bunsen burner
- Butane safety lighter
- Clamps, single bar

#### To be shared

- Balances, electronic, 0.01-g precision, 3
- Test tube "holder" for balances (See Preparation below)
- For teacher preparation
- Glass wool

- Glass wool "paint brush" (See Preparation below)
- Support stand
- Test tube, borosilicate glass
- Test tube clamp

- Cardboard or thin metal sheets, 4" x 4", 3
- Drinking straw
- Electrical tape
- Scissors

### Safety Precautions

Universal indicator solution is alcohol-based and is a flammable liquid. When heating sodium bicarbonate, use a borosilicate glass test tube. Inspect the test tube for chips and cracks before use and handle the hot test tube using a test tube clamp. Use a cool flame to heat the test tube. Do not handle glass wool with bare hands. Wear chemical splash goggles, chemical-resistant gloves, and a chemical-resistant apron. Wash hands thoroughly with soap and water before leaving the laboratory. Follow all laboratory safety guidelines. Please review current Material Safety Data Sheets for additional safety, handling, and disposal information.

### Preparation

1. Make a glass wool "paint brush" for each student lab group. Wearing gloves, cut small pieces of glass wool and tape a piece to the end of each straw.
2. Fold a piece of cardboard or thin metal sheet accordion-style (see Figure 1). Place one folded sheet on each balance as a test tube holder to prevent the tube from rolling off the balance.
3. Set up a support stand and clamp with a Bunsen burner for each lab station.



Figure 1.

### Disposal

Please consult your current *Flinn Scientific Catalog/Reference Manual* for general guidelines and specific procedures governing the disposal of laboratory waste. After completely cooling, the test tube of sodium carbonate may be rinsed and the waste disposed of down the drain with excess water according to Flinn Suggested Disposal Method #26b.

# Target Stoichiometry Lab

**Jiyuan Zhang**



## **Target Stoichiometry Lab:**

Gallium Oxide Masataka Higashiwaki, Shizuo Fujita, 2020-04-23 This book provides comprehensive coverage of the new wide bandgap semiconductor gallium oxide Ga<sub>2</sub>O<sub>3</sub>. Ga<sub>2</sub>O<sub>3</sub> has been attracting much attention due to its excellent materials properties. It features an extremely large bandgap of greater than 4.5 eV and availability of large size high quality native substrates produced from melt grown bulk single crystals. Ga<sub>2</sub>O<sub>3</sub> is thus a rising star among ultra wide bandgap semiconductors and represents a key emerging research field for the worldwide semiconductor community. Expert chapters cover physical properties, synthesis and state of the art applications including materials properties, growth techniques of melt grown bulk single crystals and epitaxial thin films and many types of devices. The book is an essential resource for academic and industry readers who have an interest in or plan to start a new R D project related to Ga<sub>2</sub>O<sub>3</sub>.

**Mitochondria: The Anti- cancer Target for the Third Millennium** Jiri Neuzil, Shazib Pervaiz, Simone Fulda, 2014-05-26 This book will be focused on mitochondria as very promising targets for anti cancer drugs yet to be fully exploited. It will contain chapters focused on aspects of basic research as well as on clinical relevance which will be written by specialists in the field. That the role of mitochondria in human pathologies goes beyond the neoplastic diseases will be documented by a chapter of the role of mitochondria in Friedreich's ataxia.

**Optoelectronics** Sergei Pyshkin, John Ballato, 2017-07-12 Optoelectronics Advanced Device Structures Book IV is following the Optoelectronics Books I, II and III published in 2011, 2013 and 2015 as part of the InTech collection of international works on optoelectronics. Accordingly as with the first three books of the collection, this book covers recent achievements by specialists around the world. The growing number of countries participating in this endeavor as well as joint participation of the US and Moldova scientists in edition of this book testifies to the unifying effect of science. An interested reader will find in the book the description of properties and applications employing organic and inorganic materials as well as the methods of fabrication and analysis of operation and regions of application of modern optoelectronic devices.

**Science and Technology of Thin Film Superconductors** R.D. McConnell, Stuart A. Wolf, 2012-12-06 The Conference on the Science and Technology of Thin Film Superconductors was conceived in the early part of 1988 as a forum for the specialist in thin film superconductivity. The conference was held on November 14-18, 1988 in Colorado Springs, Colorado. Although many excellent superconductivity conferences had been convened in the wake of the 1986-1987 discoveries in high temperature superconductivity, thin film topics were often dispersed among the sessions of a more general conference agenda. The response to the Conference on the Science and Technology of Thin Film Superconductors confirmed the need for an extended conference devoted to thin film superconductors. These proceedings are a major contribution to the technology of thin film superconductivity because of the breadth and quality of the articles provided by leaders in the field. The proceedings are divided into articles on laser deposition, sputtering, evaporation, metal organic chemical vapor deposition, thick film, substrate studies, characterization, patterning and applications, and general

properties Most of the articles discuss scientific issues for high temperature thin film superconductors although the conference was to be a forum for technology and scientific questions for both low and high temperature superconductivity For the first day of the 5 day conference Lawrence Berkeley Laboratory had organized an excellent set of short courses in superconducting thin film devices *Emerging Technologies with Advanced Devices from Micro to Nano* Subhas Chandra Mukhopadhyay,Tarikul Islam,Shakeb A. Khan,Shabana Mehfuz,Mohammad Ajmal Khan,2025-10-04 This book presents the proceedings of the 6th International Conference on Emerging Technologies Micro to Nano ETMN held in New Delhi India on November 22 23 2024 It showcases advances and innovations in micro and nanotechnologies and covers topics such as nano composites nano materials micro nano fluidics micro optics organic and flexible electronics advanced materials for nano devices MEMS smart biomimetic sensors electrochemical sensors acoustic and optical sensors micro nano sensors wearable sensors intelligent instrumentation micro nano electronics nano antenna and RF system design wireless sensor networks applications of AI and IoT based system and structural health monitoring SHM *Advancement in Oxide Utilization for Li Rechargeable Batteries* Jitendra Pal Singh,Sangsul Lee,Sylvain Franger,Ambesh Dixit,2025-05-09 Oxide materials will play a significant role in the development of rechargeable batteries They have been shown to be effective cathode materials since the 1980s however due to their unusual properties their use in anodes and as solid state electrolytes has recently gathered global scientific interest and is showing potential for both Li and Na batteries in different applications This title will give a comprehensive overview of the various oxides in use in electrochemical energy storage devices The aim is to give readers conceptual understanding of oxide materials and their utilization in energy fields for future development The book will be of interest to postgraduate students and researchers in the fields of energy storage electric vehicles chemical engineering and materials design The book will be interdisciplinary with experts in oxide chemistry physics and materials participating

**Energy Research Abstracts** ,1990 *Nanocomposite and Nanocrystalline Materials and Coatings* Alexander D. Pogrebnjak,Yang Bing,Martin Sahul,2024-06-23 This book is a collection of reports reviewed selected from several sections of the IEEE Nanomaterials Application and Properties 2023 conference The book is devoted to the study of films coatings and materials obtained by various methods of preparation and deposition for example magnetron sputtering of targets vacuum arc deposition electron plasma processing sintering of composites plasma jet deposition and other methods for obtaining nanomaterials The chapters and reports describe superhard coatings spark and plasma alloying of materials metals semiconductors polymers ceramics **Scientific and Technical Aerospace Reports** ,1992 *Physics Briefs* ,1992

*Advanced Chemical Biology* Howard C. Hang,Matthew R. Pratt,Jennifer A. Prescher,2023-02-21 Advanced Chemical Biology The modern approach to teaching chemical biology Advanced Chemical Biology is organized around the central dogma of life progressing from genes to proteins and higher order cellular structures including core application areas such as imaging chemical genetics activity based protein profiling and natural product discovery and biosynthesis Advanced topics

and applications in e g microbiology developmental biology and neurobiology are covered in separate sections Every chapter is homogeneous in style and layout consisting of a short historical introduction followed by a description of the underlying concepts and a selection of recent examples of how the concept has been turned into practice The subdivision of the contents into core and supplemental chapters enables a flexible use in teaching both for a one semester and a two semester course Written by authors and editors coming from the leading scientific institutions that have developed the concepts and technologies for this discipline Advanced Chemical Biology includes specific information on topics like DNA function synthesis and engineering chemical approaches to genome integrity and RNA function synthesis and probing Chemical approaches to transcription and RNA regulation in vivo chemical biology of genome engineering and peptide protein synthesis and engineering Directed evolution for chemical biology chemical biology of cellular metabolism chemical biology of lipids and protein post translational modifications Chemical glycobiology chemical and enzymatic modification of proteins genetic code expansion bio orthogonal chemistry and cellular imaging With its broad scope and focus on turning concepts into applications Advanced Chemical Biology is an excellent starting point for anyone entering the field and looking for a guide to the wide range of available methods and strategies that chemical biology has to offer With a Foreword by Nobel Laureate Carolyn Bertozzi INIS Atomindex ,1996 **Graphene-Based Nanomaterials** Yugal Kishore Mohanta,Kunal Biswas,Saurov Mahanta,Saravanan Muthupandian,2024-02-08 The book presents a comprehensive overview of the historical current and prospective application realms of nanobiotechnological research pertaining to graphene a carbon based nanomaterial and its diverse forms in the fields of food and agriculture as well as health sciences and technology Young nanotechnologists and businesses will have access to nanobioanalytical methods Given the present circumstances it is crucial to underscore the potential ramifications that diverse forms of graphene nanomaterials could have on the food sector agricultural methodologies and healthcare This book presents an analysis of the potential advantages of graphene based nanomaterials over traditional materials in the food agriculture and health care sectors This book employs case studies academic and theoretical literature technology transfer innovation economics and policy management to underscore the intricate issues associated with graphene nanomaterials The pioneering text Graphene Based Nanomaterials Application in Food Agriculture and Healthcare has the potential to serve as a valuable resource for interdisciplinary researchers academics practitioners policymakers and professionals operating within the fields of science technology engineering innovation management and economics Features Discusses the different aspects of graphene as a two dimensional material and its underlying unique physicochemical properties synthesis methods and protocols Considers the implications of graphene in the food sciences and its different spoilage detection mechanisms have been encompassed in the book Explores graphene nanomaterials medical and biomedical uses With examples the unique and tailor made material s uses and prospects in health sciences pharmaceuticals and biomedical research are highlighted Elaborates on graphene s applications

in agriculture and briefs the potential of biocompatible planar conductive nanoscale materials to boost agri product production crop development and crop infection surveillance

The Use of CRISPR/cas9, ZFNs, TALENs in Generating Site-Specific Genome Alterations ,2014-11-04 This new volume of Methods in Enzymology continues the legacy of this premier serial with quality chapters authored by leaders in the field This volume covers recent research and methods development for changing the DNA sequence within the genomes of cells and organisms Focusing on enzymes that generate double strand breaks in DNA the chapters describe use of molecular tools to introduce or delete genetic information at specific sites in the genomes of animal plant and bacterial cells Continues the legacy of this premier serial with quality chapters authored by leaders in the field Covers research methods in biomineralization science Contains sections on such topics as genome editing genome engineering CRISPR Cas9 TALEN and zinc finger nuclease

Energy: a Continuing Bibliography with Indexes ,1981

**Magnetoelectric Polymer-Based Composites** Senentxu Lanceros-Méndez, Pedro Martins,2017-06-21 The first book on this topic provides a comprehensive and well structured overview of the fundamentals synthesis and emerging applications of magnetoelectric polymer materials Following an introduction to the basic aspects of polymer based magnetoelectric materials and recent developments subsequent chapters discuss the various types as well as their synthesis and characterization There then follows a review of the latest applications such as memories sensors and actuators The book concludes with a look at future technological advances An essential reference for entrants to the field as well as for experienced researchers

*Advanced Fermentation and Cell Technology* Byong H. Lee,2021-10-25 ADVANCED FERMENTATION AND CELL TECHNOLOGY A comprehensive and up to date reference covering both conventional and novel industrial fermentation technologies and their applications Fermentation and cell culture technologies encompass more than the conventional microbial and enzyme systems used in the agri food biochemical bioenergy and pharmaceutical industries New technologies such as genetic engineering systems biology protein engineering and mammalian cell and plant cell systems are expanding rapidly as is the demand for sustainable production of bioingredients drugs bioenergy and biomaterials As the growing biobased economy drives innovation industrial practitioners instructors researchers and students must keep pace with the development and application of novel fermentation processes and a variety of cell technologies Advanced Fermentation and Cell Technology provides a balanced and comprehensive overview of the microbial mammalian and plant cell technologies used by the modern biochemical process industry to develop new and improved processes and products This authoritative volume covers the essential features of advanced fermentation and cell technology and highlights the interaction of food fermentation and cell culture biopharmaceutical actives Detailed chapters organized into five sections cover microbial cell technology animal and plant cell technology safety issues of new biotechnologies and applications of microbial fermentation to food products chemicals and pharmaceuticals Written by an internationally recognized expert in food biotechnology this comprehensive volume Covers both conventional and novel industrial

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Pantos,2017-03-20 The past decade has seen significant advances in naphthalenediimide and rylene diimide chemistry This book discusses the recent advances in this field and highlights potential and real applications for the molecules Such applications include organic photovoltaics anion slides DNA binders and building blocks for complex molecular topologies Naphthalenediimide and its Congeners is the first book in this rapidly developing area and will be essential reference material for postdoctoral researchers and postgraduate students This text will also provide a solid foundation for further development of naphthalenediimide chemistry Written by leaders in the field the book includes chapters on the supramolecular chemistry of naphthalenediimide DNA intercalators ion transport through membranes naphthalenediimide based photovoltaics and rylene dyes amongst others Naphthalenediimide and its Congeners is a detailed and in depth resource relevant not only to supramolecular and materials chemists but also to the larger chemistry and materials science fields **Nanotubes and Nanofibers** Yury Gogotsi,2006-06-20 Size Shape and Synthesis Key to Tuning Properties The

discovery and rapid evolution of carbon nanotubes have led to a vastly improved understanding of nanotechnology as well as dozens of possible applications for nanomaterials of different shapes and sizes ranging from composites to biology medicine energy transportation a *International Conference on Thermoelectrics* ,1998

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