

# Experiment 8 Report Sheet

## Limiting Reactant

Date \_\_\_\_\_ Lab Sec. \_\_\_\_\_ Name \_\_\_\_\_ Desk No. \_\_\_\_\_

### A. Precipitation of $\text{CaC}_2\text{O}_4 \cdot \text{H}_2\text{O}$ from the Salt Mixture

Unknown number \_\_\_\_\_

	Trial 1	Trial 2
1. Mass of beaker (g)	73.339 g	70.4301 g
2. Mass of beaker and salt mixture (g)	75.1309 g	71.4329 g
3. Mass of salt mixture (g)	1.5762 g	1.0028 g
4. Mass of filter paper (g)	0.3960 g	0.3962 g
5. Mass of filter paper and product after air-dried or oven-dried (g)	0.7609 g	0.70589 g
6. Mass of dried product (g)	0.3647 g	0.30969 g
7. Formula of dried product	$\text{CaC}_2\text{O}_4$	$\text{CaC}_2\text{O}_4$

### B. Determination of Limiting Reactant

1. Limiting reactant in salt mixture (write complete formula)



2. Excess reactant in salt mixture (write complete formula)



### Data Analysis

1. Moles of $\text{CaC}_2\text{O}_4 \cdot \text{H}_2\text{O}$ (or $\text{CaC}_2\text{O}_4$ ) precipitated (mol)	$2.496 \times 10^{-3} \text{ mol}$	$2.120 \times 10^{-3} \text{ mol}$
2. Moles of limiting reactant in salt mixture (mol)	$1.980 \times 10^{-3}$	$1.681 \times 10^{-3}$
• formula of limiting hydrate $\text{K}_2\text{C}_2\text{O}_4$		
3. Mass of limiting reactant in salt mixture (g)	0.3647 g	0.30969 g
4. Mass of excess reactant in salt mixture (g)	1.2118 g	0.6931 g
• formula of excess hydrate $\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$		
5. Percent limiting reactant in salt mixture (%)	23.12 %	30.88 %
6. Percent excess reactant in salt mixture (%)	76.87 %	69.12 %
7. Mass of excess reactant that reacted (g)	0.2393 g	0.2456 g
8. Mass of excess reactant, unreacted (g)	0.9225 g	0.4475 g

\*Show calculations for Trial 1 on next page.

# Laboratory Manual Limiting Reactant

**Harold Hart, Robert D. Schuetz**



## **Laboratory Manual Limiting Reactant:**

*Laboratory Manual for Principles of General Chemistry* Jo Allan Beran, 2010-11-01 This new edition of the Beran lab manual emphasizes chemical principles as well as techniques The manual helps students understand the timing and situations for the various techniques The Beran lab manual has long been a market leading lab manual for general chemistry Each experiment is presented with concise objectives a comprehensive list of techniques and detailed lab intros and step by step procedures

*Laboratory Manual for Principles of General Chemistry* J. A. Beran, Mark Lassiter, 2022-08-16 Laboratory Manual for Principles of General Chemistry 11th Edition covers two semesters of a general chemistry laboratory program The material focuses on the lab experiences that reinforce the concepts that not all experimental conclusions are the same and depend on identifying an appropriate experimental procedure selecting the proper apparatus employing the proper techniques systematically analyzing and interpreting the data and minimizing inherent variables As a result of good data a scientific and analytical conclusion is made which may or may not be right but is certainly consistent with the data Experiments write textbooks textbooks don't write experiments A student's scientific literacy grows when experiences and observations associated with the scientific method are encountered Further experimentation provides additional cause effect observations leading to an even better understanding of the experiment The 11th edition's experiments are informative and challenging while offering a solid foundation for technique safety and experimental procedure The reporting and analysis of the data and the pre and post lab questions focus on the intuitiveness of the experiment The experiments may accompany any general chemistry textbook and are compiled at the beginning of each curricular unit An Additional Notes column is included in each experiment's Report Sheet to provide a space for recording observations and data during the experiment Continued emphasis on handling data is supported by the Data Analysis section

**Laboratory Manual** Jo A. Beran, 1990

*Laboratory Manual for Fundamentals of Chemistry 3/E* Jo A. Beran, 1988

**Exploring General Chemistry in the Laboratory** Colleen F. Craig, Kim N. Gunnerson, 2017-02-01 This laboratory manual is intended for a two semester general chemistry course The procedures are written with the goal of simplifying a complicated and often challenging subject for students by applying concepts to everyday life This lab manual covers topics such as composition of compounds reactivity stoichiometry limiting reactants gas laws calorimetry periodic trends molecular structure spectroscopy kinetics equilibria thermodynamics electrochemistry intermolecular forces solutions and coordination complexes By the end of this course you should have a solid understanding of the basic concepts of chemistry which will give you confidence as you embark on your career in science

Instructor's Guide for Introductory Chemistry in the Laboratory James F. Hall, 1996

Addison-Wesley Chemistry Laboratory Manual Dennis D. Staley, 1995

Elements of General and Biological Chemistry, Laboratory Manual John R. Holum, 1994-10-19 This updated edition explains recent advances in environmental studies and in the molecular basis of life Suitable for students interested in the health care field as well as those who want to know how nature and human life

work at the molecular level the book begins by providing readers with a solid background in formulas structures equations solutions and equilibria A number of topics are introduced early such as molarity and are discussed in more detail in later chapters Each chapter contains a summary as well as review exercises      *Laboratory Manual for Fundamentals of General, Organic, and Biological Chemistry, Third Edition* John R. Holum, Ruth C. Denison, Sandra L. Olmsted, 1986 This Laboratory Manual is designed to accompany the texts Fundamentals of General Organic and Biological Chemistry 2nd Edition and Elements of General and Biological Chemistry 6th Edition by John R Holum It is also appropriate for any one year course treating a survey of chemistry at this level and for one term courses covering the whole spectrum of any part of it The experiments have been used by students and have been frequently revised following student polls regarding clarity and interest and suggestions from instructors The questions on the Report and Observation Sheets have again been adjusted in the light of student comments and more room for answers has been provided on many Report Sheets      *Prentice Hall Chemistry*, 2000      *Lab Manual to Accompany Introduction to Chemistry* William L. Masterton, Stanley M. Cherim, 1984-02

*The Organic Chem Lab Survival Manual* James W. Zubrick, 2020-08-04 Teaches students the basic techniques and equipment of the organic chemistry lab the updated new edition of the popular hands on guide The Organic Chem Lab Survival Manual helps students understand the basic techniques essential safety protocols and the standard instrumentation necessary for success in the laboratory Author James W Zubrick has been assisting students navigate organic chemistry labs for more than three decades explaining how to set up the laboratory make accurate measurements and perform safe and meaningful experiments This practical guide covers every essential area of lab knowledge from keeping detailed notes and interpreting handbooks to using equipment for chromatography and infrared spectroscopy Now in its eleventh edition this guide has been thoroughly updated to cover current laboratory practices instruments and techniques Focusing primarily on macroscale equipment and experiments chapters cover microscale jointware drying agents recrystallization distillation nuclear magnetic resonance and much more This popular textbook Familiarizes students with common lab instruments Provides guidance on basic lab skills and procedures Includes easy to follow diagrams and illustrations of lab experiments Features practical exercises and activities at the end of each chapter Provides real world examples of lab notes and instrument manuals The Organic Chem Lab Survival Manual A Student's Guide to Techniques 11th Edition is an essential resource for students new to the laboratory environment as well as those more experienced seeking to refresh their knowledge      *Chemistry* McGraw-Hill Staff, 2001-07      **Introduction to Chemistry, Laboratory Manual** T. R. Dickson, 1994-12-23 Teaches chemistry by offering a dynamic provocative and relevant view of the topic and its importance to society and our daily lives Three themes are stressed throughout the text developing chemical thinking and a chemical vision learning problem solving methods and utilizing group work and discussion activities These themes involve and engage the students in their own learning processes they are challenged to be active The presentation of topics has been altered to

include a new chapter which introduces the students to scientific thinking and shows that chemistry involves interesting and relevant topics The reorganization presents many core concepts in the first five chapters preparing students for later chapters In addition the author has added vignettes throughout the chapters referring to health technology the environment and society as well as to specific tools of direct use to students

**Laboratory Manual for the Fourth Edition of Organic Chemistry** Harold Hart, Robert D. Schuetz, 1972

**Laboratory Manual to Accompany Introductory Chemistry** Uno Kask, Otto W. Nitz, Martin G. Ondrus, Tammy J. Melton, 1993-07 This fifth edition of this laboratory manual emphasizes safety in the lab and discusses equipment requirements in the apparatus section at the beginning of each experiment It also features a revised art programme and explains the rationale for each experiment

**Laboratory Manual of Inorganic Pharmaceutical Chemistry** Charles Herbert Rogers, Taito Olaf Soine, 1948

**Merrill Chemistry** Robert C. Smoot, Smoot, Richard G. Smith, Jack Price, 1998

**Laboratory Manual** Harold Hart, 1988

*Teachers Manual to Accompany Laboratory for General Chemistry* Beran, 1986-05

## **Laboratory Manual Limiting Reactant** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Laboratory Manual Limiting Reactant**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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