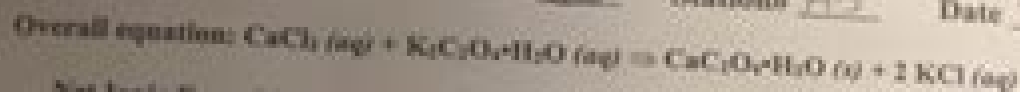


Name Mikayla D'AnnaSection 054Station A5Date 10/14/19

## 1. Data &amp; Calculations:

<p><b>CaCl<sub>2</sub></b></p> <p>Concentration of solution <u>0.75 mol/L</u></p> <p>Volume of solution <u>15 mL</u></p> <p>Moles of CaCl<sub>2</sub> used <u><math>5.92 \times 10^{-4}</math> mol</u></p>	<p><b>K<sub>2</sub>C<sub>2</sub>O<sub>4</sub>·H<sub>2</sub>O</b></p> <p>Mass assigned <u>0.140 g</u></p> <p>Mass used <u>0.142 g</u></p> <p>Moles of K<sub>2</sub>C<sub>2</sub>O<sub>4</sub>·H<sub>2</sub>O used <u>0.0008 mol</u> (MW = 184.14 g/mol)</p>
<p><b>Crucible and filter mass</b></p> <p>Dry (crucible + filter) <u>22.115 g</u></p> <p>With Precipitate <u>22.221 g</u></p>	<p><b>CaC<sub>2</sub>O<sub>4</sub>·H<sub>2</sub>O (Precipitate)</b></p> <p>Mass of CaC<sub>2</sub>O<sub>4</sub>·H<sub>2</sub>O recovered <u>0.106 g</u></p> <p>Moles of CaC<sub>2</sub>O<sub>4</sub>·H<sub>2</sub>O recovered <u>0.0007 mol</u> (MW = 146.12 g/mol)</p>

Be sure to include the necessary units for the values reported in the above table. Attach sample calculations of each type necessary to obtain the results in the above table. These should include the equations used, substituted values, appropriate units, and results.

## 2. Excess and Limiting Tests:

2a. Did a precipitate form (1) when K<sub>2</sub>C<sub>2</sub>O<sub>4</sub> solution was added to the filtrate? yes (2) when CaCl<sub>2</sub> solution was added? No

2b. Based on the results shown in 2a, what was the limiting reactant? K<sub>2</sub>C<sub>2</sub>O<sub>4</sub> What was the excess reactant? CaCl<sub>2</sub>

# Limiting Reactant Lab Report Answers

**Sara McCubbins, Angela Codron**



## Limiting Reactant Lab Report Answers:

**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

**Working with Chemistry** Donald J. Wink, Sharon Fetzer-Gislason, Julie Ellefson Kuehn, 2004-02-20 With this modular laboratory program students build skills using important chemical concepts and techniques to the point where they are able to design a solution to a scenario drawn from a professional environment The scenarios are drawn from the lives of people who work with chemistry every day ranging from field ecologists to chemical engineers and include many health professionals as well

*Forensics in Chemistry* Sara McCubbins, Angela Codron, 2012 Forensics seems to have the unique ability to maintain student interest and promote content learning I still have students approach me from past years and ask about the forensics case and specific characters from the story I have never had a student come back to me and comment on that unit with the multiple choice test at the end from the Introduction to Forensics in Chemistry The Murder of Kirsten K How did Kirsten K's body wind up at the bottom of a lake and what do wedding cake ingredients soil samples radioactive decay bone age blood stains bullet matching and drug lab evidence reveal about whodunit These mysteries are at the core of this teacher resource book which meets the unique needs of high school chemistry classes in a highly memorable way The book makes forensic evidence the foundation of a series of eight hands on week long labs As you weave the labs throughout the year and students solve the case the narrative provides vivid lessons in why chemistry concepts are relevant and how they connect All chapters include case information specific to each performance assessment and highlight the related national standards and chemistry content Chapters provide Teacher guides to help you set up Student performance assessments A suspect file to introduce the characters and new information about their relationships to the case Samples of student work that has been previously assessed and that serves as an answer key for you Grading rubrics Using Forensics in Chemistry as your guide you will gain the confidence to use inquiry based strategies and performance based assessments with a complex chemistry curriculum Your students may gain an interest in chemistry that rivals their fascination with Bones and CSI

Calculating Theoretical Yield Is Not Impossible! Michael S. Leonard, 2025-02-25 Calculating theoretical and percent yield is a fundamental skill for the laboratory This book primarily targets Organic Chemistry Laboratory courses at the high school or college and university level as a supplemental resource to help students master this skill It begins with simple examples from everyday life demonstrates the importance of balancing the equation addresses the role of the mole in these computations discusses different types of liquids considers the role of significant figures and culminates with the planning of syntheses There are suggestions for further reading as well as practice problems and questions to ensure

mastery Begins with examples from everyday life that enable students to understand the concepts of theoretical and percent yield before applying those concepts to the laboratory Addresses the necessity of balancing the reaction equation the centrality of the mole in these calculations and the role of significant figures in reporting the answer Explains how to approach the calculations when using neat liquids or solutions The culmination of this text is the use of the same thought processes to plan the amounts of reactants needed for syntheses of desired quantities of product All of the problems in the book include detailed solutions with accompanying text to explain the answers and ancillaries also include suggestions for further reading

**The Student's Lab Companion** John W. Lehman, 2008 This comprehensive lab companion provides enough theory to help students understand how and why an operation works but emphasizes the practical aspects of an operation to help them perform the operation successfully in the lab For undergraduate or graduate students taking organic chemistry lab This comprehensive lab companion provides enough theory to help students understand how and why an operation works but emphasizes the practical aspects of an operation to help them perform the operation successfully in the lab The Second Edition makes substantive revisions of many operations to clarify existing material and add new information More environmentally friendly i e green lab experiments are encouraged Ideal for professors who write their own lab experiments or would like custom labs but need a source for lab operations and safety information *Scientific and*

*Technical Aerospace Reports* ,1992 Fossil Energy Update ,1985 **Government Reports Announcements & Index** ,1994-02 *ERDA Energy Research Abstracts* United States. Energy Research and Development Administration, 1977

**ERDA Energy Research Abstracts** United States. Energy Research and Development Administration. Technical Information Center, 1977 **Nuclear Science Abstracts** ,1971 **Current Index to Journals in Education** ,1980

Government reports annual index ,199? *Energy Research Abstracts* ,1985 *Chemistry* Frank Jenkins, 1992

*Government Reports Announcements* ,1975-05-02 **U.S. Government Research & Development Reports** ,1971

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