

Stoichiometry Limiting Reactant

Answers

- (1) How many grams of calcium phosphate can be produced from the reaction between 2.50 L of 0.250 M calcium chloride with an excess of phosphoric acid?



$$2.50 \text{ L CaCl}_2 \times \frac{0.250 \text{ mol CaCl}_2}{1 \text{ L CaCl}_2} \times \frac{1 \text{ mol Ca}_3(\text{PO}_4)_2}{3 \text{ mol CaCl}_2} \times \frac{310 \text{ g Ca}_3(\text{PO}_4)_2}{1 \text{ mol Ca}_3(\text{PO}_4)_2} = 64.6 \text{ g Ca}_3(\text{PO}_4)_2$$

- (2) How many milliliters of 1.50 M nitric acid is required to react with 100.0 g of cuprous oxide?



$$100 \text{ g Cu}_2\text{O} \times \frac{1 \text{ mol Cu}_2\text{O}}{143 \text{ g Cu}_2\text{O}} \times \frac{14 \text{ mol HNO}_3}{3 \text{ mol Cu}_2\text{O}} \times \frac{1000 \text{ ml HNO}_3}{1.5 \text{ mol HNO}_3} = 2180 \text{ ml HNO}_3$$

- (3) Consider the following unbalanced reaction:



Balance the reaction. 3.25 g of NH_3 is allowed to react with 3.5 g of O_2 .

- (a) Which reactant is the limiting reagent?

$$3.25 \text{ g NH}_3 \times \frac{1 \text{ mol NH}_3}{17.03 \text{ g NH}_3} \times \frac{4 \text{ mol NO}}{4 \text{ mol NH}_3} \times \frac{30.01 \text{ g NO}}{1 \text{ mol NO}} = 5.73 \text{ g NO}$$

$$3.5 \text{ g O}_2 \times \frac{1 \text{ mol O}_2}{32 \text{ g O}_2} \times \frac{4 \text{ mol NO}}{5 \text{ mol O}_2} \times \frac{30.01 \text{ g NO}}{1 \text{ mol NO}} = 2.63 \text{ g NO}$$

O_2 is the limiting reagent.

- (b) How many grams of NO are formed?

2.63 g of NO are formed.

- (c) How much excess reagent remains after the reaction?

$$3.5 \text{ g O}_2 \times \frac{1 \text{ mol O}_2}{32 \text{ g O}_2} \times \frac{4 \text{ mol NH}_3}{5 \text{ mol O}_2} \times \frac{17.03 \text{ g NH}_3}{1 \text{ mol NH}_3} = 1.49 \text{ g NH}_3 \text{ used}$$

$$3.25 \text{ g NH}_3 - 1.49 \text{ g NH}_3 = 1.76 \text{ g NH}_3 \text{ remains.}$$

Answer Sheet To The Stoichiometry Limiting Reagent

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Chemistry Carson-Dellosa Publishing, 2015-03-16 Chemistry for grades 9 to 12 is designed to aid in the review and practice of chemistry topics Chemistry covers topics such as metrics and measurements matter atomic structure bonds compounds chemical equations molarity and acids and bases The book includes realistic diagrams and engaging activities to support practice in all areas of chemistry The 100 Series science books span grades 5 to 12 The activities in each book reinforce essential science skill practice in the areas of life science physical science and earth science The books include engaging grade appropriate activities and clear thumbnail answer keys Each book has 128 pages and 100 pages or more of reproducible content to help students review and reinforce essential skills in individual science topics The series will be aligned to current science standards **Kaplan SAT Subject Test Chemistry 2015-2016** Kaplan Test Prep, 2015-03-03 Essential strategies practice and review to ace the SAT Subject Test Chemistry Getting into a top college has never been more difficult Students need to distinguish themselves from the crowd and scoring well on a SAT Subject Test gives students a competitive edge Kaplan's SAT Subject Test Chemistry is the most up to date guide on the market with complete coverage of both the content review and strategies students need for success on test day Kaplan's SAT Subject Test Chemistry features A full length diagnostic test Full length practice tests Focused chapter summaries highlights and quizzes Detailed answer explanations Proven score raising strategies End of chapter quizzes Kaplan is serious about raising students scores we guarantee students will get a higher score **General Chemistry Workbook** Daniel C. Tofan, 2010-07-28 This workbook is a comprehensive collection of solved exercises and problems typical to AP introductory and general chemistry courses as well as blank worksheets containing further practice problems and questions It contains a total of 197 learning objectives grouped in 28 lessons and covering the vast majority of the types of problems that a student will encounter in a typical one year chemistry course It also contains a fully solved 50 question practice test which gives students a good idea of what they might expect on an actual final exam covering the entire material **Chemistry** John Olmsted, Greg Williams, Robert C. Burk, 2020 Chemistry 4th Edition is an introductory general chemistry text designed specifically with Canadian professors and students in mind A reorganized Table of Contents and inclusion of SI units IUPAC standards and Canadian content designed to engage and motivate readers and distinguish this text from other offerings It more accurately reflects the curriculum of most Canadian institutions Chemistry is sufficiently rigorous while engaging and retaining student interest through its accessible language and clear problem solving program without an excess of material and redundancy *Oswaal CBSE Question Bank Class 11 Physics, Chemistry, Mathematics & English Core (Set of 4 Books) Chapterwise and Topicwise Solved Papers For 2025 Exams* Oswaal Editorial Board, 2024-02-15 Description of the product 100% Updated Syllabus Question Typologies We have got you covered with the latest and 100% updated curriculum along with the latest typologies of Questions Timed Revision with Topic wise Revision Notes Smart Mind Maps Study smart not hard Extensive Practice with

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The Best Test Preparation & Review Course FE/EIT Fundamentals of Engineering/engineering-in-training John Presti, George Wetzell, James Colaizzi, 1999

This test prep book includes two full length practice tests with explanations for every answer Detailed review chapters provide sample problems and solutions as well as an overview of the test subjects Designed to assess students knowledge of engineering subjects ranging from chemistry to thermodynamics A thorough preparation for students taking the FE PM General exam

Chemistry Textbook for College and University USA Ibrahim Sikder, 2023-06-04 Chemistry Textbook USA **Applying Multiple-Reaction Stoichiometry to Chemical Reactor Modelling** Guillermo Fernando

Barreto, Carlos Daniel Luzi, 2024-03-12 This book delves into the realm of Chemical Reaction Engineering CRE by showcasing the practical application of multiple reaction stoichiometry The authors critically assess various approaches commonly taught in undergraduate CRE courses to establish the relationships between changes in chemical species In doing so they propose an innovative conceptual alternative that is specifically tailored for undergraduate lectures The book carefully selects composition measures that effectively harness the power of stoichiometric relationships in elementary reacting systems and models which are typically covered in these courses Going beyond the basics it also offers a profound discussion on the value of chemical stoichiometry for tackling more intricate reaction systems and detailed models Moreover the book presents a simplified procedure that minimizes the reliance on complex linear algebra techniques making the book accessible to a wider range of readers

Multiple Solution Methods for Teaching Science in the Classroom Stephen DeMeo, 2008 For the first time in science education the subject of multiple solution methods is explored in book form While a multiple method teaching approach is utilized extensively in math education there are very few journal articles and no texts written on this topic in science Teaching multiple methods to science students in order to solve quantitative word problems is important for two reasons First it challenges the practice by teachers that one specific method should be used when solving problems Secondly it calls into question the belief that multiple methods would confuse students and retard their learning Using a case study

approach and informed by research conducted by the author this book claims that providing students with a choice of methods as well as requiring additional methods as a way to validate results can be beneficial to student learning A close reading of the literature reveals that time spent on elucidating concepts rather than on algorithmic methodologies is a critical issue when trying to have students solve problems with understanding It is argued that conceptual understanding can be enhanced through the use of multiple methods in an environment where students can compare evaluate and verbally discuss competing methodologies through the facilitation of the instructor This book focuses on two very useful methods proportional reasoning PR and dimensional analysis DA These two methods are important because they can be used to solve a large number of problems in all of the four academic sciences biology chemistry physics and earth science This book concludes with a plan to integrate DA and PR into the academic science curriculum starting in late elementary school through to the introductory college level A challenge is presented to teachers as well as to textbook writers who rely on the single method paradigm to consider an alternative way to teach scientific problem solving

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