

Limiting Reactant and Percent Yield Worksheet

Key

1. Calcium hydroxide, used to neutralize acid spills, reacts with hydrochloric acid according to the following unbalanced equation:



a. If you have spilled 6.3 mol of HCl and put 2.8 mol of Ca(OH)_2 on it, which substance is the limiting reactant?



* Ca(OH)_2 is limiting

b. How many moles of the excess reactant remain?



2. Aluminum oxidizes according to the following unbalanced equation: $4\text{ Al} + 3\text{ O}_2 \rightarrow 2\text{ Al}_2\text{O}_3$

a. Powdered Al (0.048 mol) is placed into a container containing 0.030 mol O_2 . What is limiting reactant?



* O_2 is limiting

b. How many moles of the excess reactant remain?



3. Heating zinc sulfide in the presence of oxygen yields the following: $\underline{2\text{ZnS}} + \underline{3\text{O}_2} \rightarrow \underline{2\text{ZnO}} + \underline{2\text{SO}_2}$

a. If 1.72 mol of ZnS is heated in the presence of 3.6 g of O_2 , which is the limiting reactant? (Balance the equation first.)



* O_2 is limiting



b. How many grams of the excess reactant remain?



75 g ZnS remain

Limiting Reagent And Percent Yield Answer Key 12 3

Fred M. Dewey

Limiting Reagent And Percent Yield Answer Key 12 3:

Foundations of College Chemistry, Alternate Morris Hein,Susan Arena,2010-01-26 Learning the fundamentals of chemistry can be a difficult task to undertake for health professionals For over 35 years this book has helped them master the chemistry skills they need to succeed It provides them with clear and logical explanations of chemical concepts and problem solving They ll learn how to apply concepts with the help of worked out examples In addition Chemistry in Action features and conceptual questions checks brings together the understanding of chemistry and relates chemistry to things health professionals experience on a regular basis *Foundations of College Chemistry* Morris Hein,Susan Arena,2013-01-01 Learning the fundamentals of chemistry can be a difficult task to undertake for health professionals For over 35 years Foundations of College Chemistry Alternate 14th Edition has helped readers master the chemistry skills they need to succeed It provides them with clear and logical explanations of chemical concepts and problem solving They ll learn how to apply concepts with the help of worked out examples In addition Chemistry in Action features and conceptual questions checks brings together the understanding of chemistry and relates chemistry to things health professionals experience on a regular basis *Introduction to General, Organic, and Biochemistry* Morris Hein,Scott Pattison,Susan Arena,Leo R. Best,2014-01-15 The most comprehensive book available on the subject Introduction to General Organic and Biochemistry 11th Edition continues its tradition of fostering the development of problem solving skills featuring numerous examples and coverage of current applications Skillfully anticipating areas of difficulty and pacing the material accordingly this readable work provides clear and logical explanations of chemical concepts as well as the right mix of general chemistry organic chemistry and biochemistry An emphasis on real world topics lets readers clearly see how the chemistry will apply to their career *Basic Concepts of Chemistry* Leo J. Malone,Theodore Dolter,2008-12-03 Engineers who need to have a better understanding of chemistry will benefit from this accessible book It places a stronger emphasis on outcomes assessment which is the driving force for many of the new features Each section focuses on the development and assessment of one or two specific objectives Within each section a specific objective is included an anticipatory set to orient the reader content discussion from established authors and guided practice problems for relevant objectives These features are followed by a set of independent practice problems The expanded Making it Real feature showcases topics of current interest relating to the subject at hand such as chemical forensics and more medical related topics Numerous worked examples in the text now include Analysis and Synthesis sections which allow engineers to explore concepts in greater depth and discuss outside relevance *Chemistry* John A. Olmsted,Gregory M. Williams,Robert Charles Burk,2016-01-14 Olmsted Burk 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 distinguish this text from many of the current text offerings It more accurately reflects the curriculum of most Canadian

institutions Instructors will find the text sufficiently rigorous while it engages and retains student interest through its accessible language and clear problem solving program without an excess of material that makes most text appear daunting and redundant **Chemical Principles** Peter Atkins,Loretta Jones,2007-08 Written for calculus inclusive general chemistry courses Chemical Principles helps students develop chemical insight by showing the connections between fundamental chemical ideas and their applications Unlike other texts it begins with a detailed picture of the atom then builds toward chemistry s frontier continually demonstrating how to solve problems think about nature and matter and visualize chemical concepts as working chemists do Flexibility in level is crucial and is largely established through clearly labeling separating in boxes the calculus coverage in the text Instructors have the option of whether to incorporate calculus in the coverage of topics The multimedia integration of Chemical Principles is more deeply established than any other text for this course Through the unique eBook the comprehensive Chemistry Portal Living Graph icons that connect the text to the Web and a complete set of animations students can take full advantage of the wealth of resources available to them to help them learn and gain a deeper understanding

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Atomic structure The periodic table Chemical formulas Chemical reactions Mass and mole relationships Gas laws Solutions Acids and bases Thermochemistry A brand new chapter on the structure of molecules **Holt Chemistry File**, 1998 This reference is a must for students who need extra help reteaching or extra practice. The guide moves students through the same concepts as the text but at a slower pace. More descriptive detail along with visual algorithms provides a more structured approach. Each chapter closes with a large bank of practice problems.

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