

Percent Yield Practice

1. Calculate the theoretical yield of calcium oxide if 24.8 g of calcium carbonate decomposes. Calculate the percent yield if you got 13.1 g in the laboratory.



$$\frac{24.8 \text{ g CaCO}_3}{1} \cdot \frac{1 \text{ mol CaCO}_3}{100.09 \text{ g CaCO}_3} \cdot \frac{1 \text{ mol CaO}}{1 \text{ mol CaCO}_3} \cdot \frac{56.08 \text{ g CaO}}{1 \text{ mol CaO}} = 13.9 \text{ g CaO} \quad \text{TY}$$

$$\text{PY} = \frac{\text{AY}}{\text{TY}} \cdot 100 = \frac{13.1}{13.9} \cdot 100 = \boxed{94.24\%} \Rightarrow \boxed{94.2\%}$$

2. What is the percent yield if you experimentally produce 3.65 g of copper when 1.87 g of aluminum reacts with 9.65 g copper (II) sulfate?



$$\frac{1.87 \text{ g Al}}{1} \cdot \frac{1 \text{ mol Al}}{26.98 \text{ g Al}} \cdot \frac{3 \text{ mol Cu}}{2 \text{ mol Al}} \cdot \frac{159.62 \text{ g CuSO}_4}{1 \text{ mol CuSO}_4} = 16.6 \text{ g CuSO}_4 \quad \text{Used}$$

$$\frac{9.65 \text{ g CuSO}_4}{159.62 \text{ g CuSO}_4} \cdot \frac{1 \text{ mol CuSO}_4}{1 \text{ mol CuSO}_4} \cdot \frac{3 \text{ mol Cu}}{2 \text{ mol CuSO}_4} \cdot \frac{63.55 \text{ g Cu}}{1 \text{ mol Cu}} = 3.84 \text{ g Cu}$$

$$\text{PY} = \frac{\text{AY}}{\text{TY}} \cdot 100 = \frac{3.65}{3.84} \cdot 100 = \boxed{95.05\%} \quad \text{TY} \rightarrow \boxed{95.1\%}$$

3. If you start with 5.0 g of C_3H_8 and react it with oxygen, what is the theoretical yield of water? If you have a percent yield of 75.0%, What is the actual yield of water?



$$\frac{5.0 \text{ g C}_3\text{H}_8}{44.11 \text{ g C}_3\text{H}_8} \cdot \frac{1 \text{ mol C}_3\text{H}_8}{1 \text{ mol C}_3\text{H}_8} \cdot \frac{4 \text{ mol H}_2\text{O}}{1 \text{ mol C}_3\text{H}_8} \cdot \frac{18.02 \text{ g H}_2\text{O}}{1 \text{ mol H}_2\text{O}} = 8.2 \text{ g H}_2\text{O} \quad \text{TY}$$

$$\text{PY} = \frac{\text{AY}}{\text{TY}} \cdot 100$$

$$\frac{\text{PY} \cdot \text{TY}}{100} = \text{AY} = \frac{75 \cdot 8.2}{100} = \boxed{6.2 \text{ g H}_2\text{O}} \quad \text{AY}$$

4. What is the theoretical yield of sodium oxide if you start with 20 g of calcium oxide?



$$\frac{20 \text{ g CaO}}{56.08 \text{ g CaO}} \cdot \frac{1 \text{ mol CaO}}{1 \text{ mol CaO}} \cdot \frac{1 \text{ mol Na}_2\text{O}}{1 \text{ mol CaO}} \cdot \frac{61.98 \text{ g Na}_2\text{O}}{1 \text{ mol Na}_2\text{O}} = \boxed{20 \text{ g Na}_2\text{O}}$$

Theoretical Yield Answer Key

SMITH



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General Chemistry Ralph H. Petrucci, William S. Harwood, 1993 General Chemistry Principles and Modern Applications is recognized for its superior problems lucid writing and precision of argument This updated and expanded edition retains the popular and innovative features of previous editions including Feature Problems follow up Integrative and Practice Exercises to accompany every in chapter Example and Focus On application boxes as well as new Keep in Mind marginal notes Topics covered include atoms and the atomic theory chemical compounds and reactions gases Thermochemistry electrons in atoms chemical bonding liquids solids and intermolecular forces chemical kinetics principles of chemical equilibrium acids and bases electrochemistry representative and transitional elements and nuclear and organic chemistry For individuals interested in a broad overview of chemical principles and applications *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 **eBook: General, Organic and Biological Chemistry 2e** SMITH, 2012-02-16 eBook General Organic and Biological Chemistry 2e **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 **PGT Biology Question Bank Chapterwise - for PGT Teachers** Mocktime Publication, PGT Biology Question Bank Chapterwise for PGT Teachers *SuperSimple Chemistry* DK, 2020-06-09 A fantastic aid for coursework homework and studying for tests this comprehensive guide covers Next Generation Science Standards for grades 6 10 and will have you ready for tests and exams in no time Each topic is fully illustrated to support the information make the facts crystal clear and bring the science to life A large central image explains the idea visually and each topic is summed up on a single page helping children to quickly get up to speed and really understand how chemistry works Information boxes explain the theory with the help of simple graphics and for further studying a handy Key Facts box provides a simple summary you can check back on later With clear concise coverage of all the core topics SuperSimple Chemistry is the perfect accessible guide to chemistry for children supporting classwork and

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Foundations of College Chemistry Morris Hein, Susan Arena, Cary Willard, 2023 Foundations of College Chemistry 16th edition presents chemistry as a modern vital subject and is designed to make introductory chemistry accessible to all beginning students It is intended for students who have never taken a chemistry course or those who had a significant interruption in their studies but plan to continue with the general chemistry sequence The central focus is to make chemistry interesting and understandable and teach students the problem solving skills they will need This International Adaptation offers new and updated content with improved presentation of all course material It builds on the strengths of previous editions including clear explanations and step by step problem solving The material emphasizes real world applications of chemistry as the authors develop the principles that form the foundation for the further study of chemistry There is new and expanded coverage of polarizing power and polarizability Fajans rules collision number and mean free path abnormal molecular masses and van t Hoff factor and applications of radioactivity

Study Guide to Accompany Basics for Chemistry Martha Mackin, 2012-12-02 Study Guide to Accompany Basics for Chemistry is an 18 chapter text designed to be used with Basics for Chemistry textbook Each chapter contains Overview Topical Outline Skills and Common Mistakes which are all keyed to the textbook for easy cross reference The Overview section summarizes the content of the chapter and includes a comprehensive listing of terms a summary of general concepts and a list of numerical exercises while the Topical Outline provides the subtopic heads that carry the corresponding chapter and section numbers as they appear in the textbook The Fill in Multiple Choice are two sets of questions that include every concept and numerical exercise introduced in the chapter and the Skills section provides developed exercises to apply the new concepts in the chapter to particular examples The Common Mistakes section is designed to help avoid some of the errors that students make in their effort to learn chemistry while the Practical Test section includes matching and multiple choice questions that comprehensively cover almost every concept and numerical problem in the chapter After briefly dealing with an overview of chemistry this book goes on exploring the concept of matter energy measurement problem solving atom periodic table and chemical bonding These topics are followed by discussions on writing names and formulas of compounds chemical formulas and the mole chemical reactions calculations based on equations gases and the properties of a liquid The remaining chapters examine the solutions acids bases salts oxidation reduction reactions electrochemistry chemical kinetics and equilibrium and nuclear organic and biological chemistry This study guide will be of great value to chemistry teachers and students

General Chemistry for Engineers James O. Glanville, 2002 Emphasizing problem solving and engineering approximation this chemistry book provides engineers

with an understanding of the entities atoms molecules and ions that are relevant to their lives and professional careers Throughout the book internet key word searching and graphing exercises take advantage of users existing computer skills and encourages them to acquire new ones in designing preparing and interpreting graphs Chapter topics cover atoms elements and measurements nuclides molecules and ions chemical reaction and stoichiometry gases quantum mechanics and the periodic table chemical bonding and chemical structure chemical energy and the first law of thermodynamics the second law of thermodynamics and chemical equilibrium gas and solution equilibria liquids and their mixtures solids phase diagrams and solutions the periodic table and redox chemistry electrochemistry and rate processes For engineers preparing for the professional certification exam

Synthesis of β -Lactam Antibiotics Alle Bruggink, 2011-06-27 Penicillins and cephalosporins have a long history in combating bacterial infections Despite new infectious diseases and occurring resistance beta lactam antibiotics will for many years to come continue to play a prominent role in our therapeutic arsenal This book covers the industrial development of the chemical and biochemical processes used to manufacture these products as well as looking ahead to possible future processes The interplay between synthetic organic chemistry with the understanding and application of enzymes modeling of fermentation processes and integration through bio chemical process engineering is illustrated In depth scientific approaches to biocatalysis and biocatalyst development including enzyme kinetics enzyme crystal studies and semi rational enzyme mutations are also presented Metabolic pathway analysis and modeling of fermentation process are treated as well as molecular precision in synthetic approaches to beta lactams their precursors and derivatives Process technology studies including new reactor concepts possible short cut routes and improved down stream processing methods complete a broad view on the scope and limitations of the presently developed industrial processes including an intriguing insight into future process possibilities This book represents an excellent case study on the transformation of traditional stoichiometric organic synthesis and classical fermentations into modern bio catalysis and biosynthesis based on insights in metabolic pathways and enzyme actions

The Art of Explanation: General Chemistry
N. T. Coleman, PhD, 2017-05-25 In this book The Art of Explanation General Chemistry the author shares with you the key concepts of general chemistry with problems sets that allow you to not only work out problems but rather define and discuss the principles of chemistry When you master understanding the definition a light bulb in your head will turn on and thus you will know it and will be able to explain it You will have mastered the art of explanation

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Theodore L. Brown, H. Eugene LeMay Jr., Bruce E. Bursten, Catherine Murphy, Patrick Woodward, Steven Langford, Dalius Sagatys, Adrian George, 2013-10-04 If you think you know the Brown LeMay Bursten Chemistry text think again In response to market request we have created the third Australian edition of the US bestseller Chemistry The Central Science An extensive revision has taken this text to new heights Triple checked for scientific accuracy and consistency this edition is a more seamless and cohesive product yet retains the clarity innovative pedagogy functional problem solving and visuals of the

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