General Chemistry 1 Quarter 1, Lesson 14 LIMITING AND EXCESS REAGENTS

Objectives:

- Define the concept of limiting and excess reactants.
- Determine the limiting and excess reactants using mole ratios from balanced chemical equations.

When a chemical reaction is carried out in a flask, the amount of reactants are not always present in the exact proportion stoichiometrically determined from the balanced equation. To make sure that the more expensive reagent is completely used up and converted to the desired product, chemists usually add the cheaper reagent in excess quantity. The reagent that has completely reacted and used up in a reaction is called the **limiting reagent**. The **excess reagent** is the reactant that is present in quantity higher than what is required to react with the limiting reagent.

Sample Problem 1. Let's use the chemical equation below:
$$3H_2(g) + N_2(g) \rightarrow 2NH_1(g)$$

Ammonia, NH_3 , is synthesized from the reaction of H_2 and N_2 gases. Suppose 6 moles of H_2 was initially mixed with 4 moles of N_2 gas at high pressure. To determine which of the 2 reactants is the limiting reagent, the amount of NH_3 produced must be computed given the number of moles of H_2 and N_2 and the mole-mole factor from the balanced equation.

moles
$$NH_3 = \# \text{ moles of } H_2 \times \frac{2 \text{ moles } NH_3}{3 \text{ moles } H_2}$$

moles $NH_3 = \# \text{ moles of } H_2 \times \frac{2 \text{ moles } NH_3}{3 \text{ moles } H_2}$

moles $NH_3 = 6 \text{ moles } Of H_2 \times \frac{2 \text{ moles } NH_3}{3 \text{ moles } H_2}$

moles $NH_3 = 4 \text{ moles } Of H_2 \times \frac{2 \text{ moles } NH_3}{4 \text{ mole } NH_3}$

moles $NH_3 = 4 \text{ moles } Of H_2 \times \frac{2 \text{ moles } NH_3}{4 \text{ mole } NH_3}$

moles $NH_3 = 6 \text{ moles } NH_3 = 6 \text{ moles } NH_3$

moles $NH_3 = 6 \text{ moles } NH_3 = 6 \text{ moles } NH_3$

From the computed values we determined that if 6 moles of H_2 completely reacts with N_2 , it can produce 4 moles of NH_2 while 4 moles of N_2 can produce 8 moles of NH_2 when fully used up. Since there is less amount of NH_2 produced with 6 moles of H_2 than 4 moles of N_2 , H_2 gas is the limiting reagent while the N_2 gas is the reagent in excess. To determine how much of the 4 moles of N_2 is in excess, we will use the mole-mole factor of N_2 and H_2 .

moles
$$N_2 = 6$$
 moles of $H_2 \times \frac{1 \text{ mole } N_2}{3 \text{ moles } H_2}$ The number of moles of N_2 required to fully react to 6 moles of H_2 is only 2 moles. Thus, the initial 4 moles of N_2 has an excess of 2 moles.

$$excess N_2 = 2 \text{ moles} - 2 \text{ moles} = 2 \text{ moles}$$

Sample Problem 2. The combustion of ethane produces carbon dioxide and water shown in the reaction below:

$$2C_2H_6 + 7O_2 \rightarrow 4CO_2 + 6H_2O$$

 How many moles of CO₂ are produced with 56.2 moles C₂H₆ and 73.4 moles of O₂? Solution:

moles
$$CO_2 = 56.2$$
 moles of $C_2H_4 \times \frac{4 \text{ moles } CO_2}{5 \text{ moles } CO_2}$ moles $CO_2 = 73.4$ moles $CO_2 \times \frac{4 \text{ moles } CO_2}{7 \text{ moles } CO_2}$ moles $CO_2 = 41.9$ moles $CO_3 \times \frac{4 \text{ moles } CO_2}{7 \text{ moles } CO_3}$

- Which reagent is the limiting reagent? Which is the excess reagent?
 The Limiting reagent is O₂ while the excess reagent is C₂H₆.
- How many moles of C₂H₆ are in excess?

Limiting And Excess Reactants Answer Key

Tom Hsu PH.D.

Limiting And Excess Reactants Answer Key:

Mapping College Chemistry Stephen DeMeo, 2019-03-01 This text is a chemistry problem solving resource appropriate for teachers and their students who are enrolled in high school Advanced Placement Chemistry or in a first year college General Chemistry course The book incorporates a chemistry problem solving plan one that uses an innovative graphic organizer strategy The strategy successfully evaluated with students combines problem solving processes with chemical concepts that will allow students to solve the most common and difficult problems encountered in the first year of chemistry Topical problem solving will focus on limiting reactant stoichiometry identifying types of chemical reactions equilibrium acid base equilibria and electrochemistry Why would this resource be of interest to chemistry students To be successful to get into a well known college medical school physical therapy or graduate program often requires that students get an A in your pre requisite Introductory General Chemistry course To make matters worse many college professors feel that only a few students should get A grades and therefore they give difficult exams that many students fail this is the weeding out process that every pre health student is apprehensive about To succeed in this competitive environment entails not just studying harder or longer it means re organizing textbook content so that it is meaningful to the student This is the first text of its kind to employ a reliable research based strategy that incorporates a decision based visual tool to solve chemistry textbook problems ones that can make or break a career 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 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

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Stoichiometry Thermodynamics Exploring Chemistry (Loose-Leaf) Matthew Johll, 2012-05-04 Matthew Johll's Exploring Chemistry overs the standard topics for the nonmajors course in the typical order but each chapter unfolds in the context of a single case study that helps students connect what they are learning to real life situations For example students work through the often difficult topics of molecular structure gas laws and organic chemistry by learning about the development of powerful new chemotherapy drugs new technologies for screening airline passengers and the creation of biodegradable biopolymers It's the same same case driven approach that Johll uses in his acclaimed Investigating Chemistry now in its Third Edition but Exploring Chemistry goes beyond the other book s specific focus on examples from forensic science to use real life stories from cooking athletics genetics green chemistry and more **Limiting Reactant and Percent** Lifelige, 2019 This lesson plan covers analyzing chemical reactions in order to determine limiting reactants and excess reactants including calculating the amount of excess reactant calculate the theoretical yield of a reaction and calculating the percent yield of a reaction 5 Steps to a 5: AP Chemistry 2024 Elite Student Edition John T. Moore, Richard H. Langley, 2023-07-31 AP Teachers 1 Choice Ready to succeed in your AP course and ace your exam Our 5 Steps to a 5 guides explain the tough stuff offer tons of practice and explanations and help you make the most efficient use of your study time 5 Steps to a 5 AP Chemistry 2024 Elite Student Edition is more than a review guide it s a system that has helped thousands of students walk into test day feeling prepared and confident Everything You Need for a 5 3 full length practice tests that align with the latest College Board requirements Hundreds of practice exercises with answer explanations Comprehensive overview of all test topics Proven strategies from seasoned AP educators Why the Elite Edition 200 pages of additional AP content 5 minute daily activities to reinforce critical AP concepts AP educators love this feature for bellringers in the classroom Study on the Go All instructional content in digital format for both computers and mobile devices Interactive practice tests with answer explanations A self guided personalized study plan with daily goals powerful analytics flashcards games and more A Great In class Supplement 5 Steps is an ideal companion to your main AP text Includes an AP Chemistry Teacher's Manual that offers excellent guidance to educators for better use of the 5 Steps resources 5 Steps to a 5: AP Chemistry 2024 John T. Moore, Richard H. Langley, 2023-07-31 AP Teachers 1 Choice Ready to succeed in your AP course and ace your exam Our 5 Steps to a 5 guides explain the tough stuff offer tons of practice and explanations and help you make the most efficient use of your study time 5 Steps to a 5 AP Chemistry is more than a review guide it s a system that has helped thousands of students walk into test day feeling prepared and confident Everything You Need for a 5 3 full length practice tests that align with the latest College Board requirements Hundreds of practice exercises with answer explanations Comprehensive overview of all test topics Proven strategies from seasoned AP educators Study on the Go All instructional content in digital format for both computers and mobile devices Interactive practice tests with answer explanations A self guided personalized study plan with daily goals powerful analytics flashcards games and more A Great In class Supplement 5

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