Name: Date:

# **Limiting Reagent Worksheet**

Answers

Given the following reaction:

$$C_1H_A + \underline{5} O_1 \rightarrow \underline{3} CO_1 + \underline{4} H_1O_2$$

Balance the reaction.

Suppose 14.8 g of C<sub>3</sub>H<sub>8</sub> reacts with 3.44 g of O<sub>2</sub>. Determine the limiting reagent.

$$14.8 \text{ g C}_{3}H_{8} \times \frac{1 \text{ mol C}_{3}H_{8}}{44.09 \text{ g C}_{3}H_{8}} \times \frac{4 \text{ mol H}_{2}O}{1 \text{ mol C}_{3}H_{8}} \times \frac{18.02 \text{ g H}_{2}O}{1 \text{ mol H}_{2}O} = 24.2 \text{ g H}_{2}O$$

$$3.44 \text{ g O}_{2} \times \frac{1 \text{ mol O}_{2}}{32 \text{ g O}_{2}} \times \frac{4 \text{ mol H}_{2}O}{5 \text{ mol O}_{2}} \times \frac{18.02 \text{ g H}_{2}O}{1 \text{ mol H}_{2}O} = 1.55 \text{ g H}_{2}O$$

Since O, produces less quantity of H,O than C,H, does, it is the limiting reagent.

(b) Determine the amount of CO, produced.

Given the following reaction:

Balance the reaction.

What is the limiting reagent if 2.2 g of Mg reacts with 4.5 L of O, at STP?

2.2 g Mg \* 
$$\frac{1 \text{ mol Mg}}{24.3 \text{ g Mg}}$$
 \*  $\frac{2 \text{ mol MgO}}{2 \text{ mol Mg}}$  = 0.0905 mol MgO  
4.5 L O<sub>2</sub> \*  $\frac{1 \text{ mol O}_2}{22.4 \text{ L O}_2}$  \*  $\frac{2 \text{ mol MgO}}{1 \text{ mol O}_2}$  \* = 0.401 mol MgO

Since Mg produces less MgO than O, Mg is the limiting reagent.

Determine the amount of MgO produced in grams.

# **Limiting Reagent Homework Problems Key**

Frank Schaffer Publications, Joan DiStasio

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Survival Guide to General Chemistry Patrick E. McMahon, Rosemary McMahon, Bohdan Khomtchouk, 2019-02-13 This work evolved over thirty combined years of teaching general chemistry to a variety of student demographics. The focus is not to recap or review the theoretical concepts well described in the available texts Instead the topics and descriptions in this book make available specific detailed step by step methods and procedures for solving the major types of problems in general chemistry Explanations instructional process sequences solved examples and completely solved practice problems are greatly expanded containing significantly more detail than can usually be devoted to in a comprehensive text Many chapters also provide alternative viewpoints as an aid to understanding Key Features The authors have included every major topic in the first semester of general chemistry and most major topics from the second semester Each is written in a specific and detailed step by step process for problem solving whether mathematical or conceptual Each topic has greatly expanded examples and solved practice problems containing significantly more detail than found in comprehensive texts Includes a chapter designed to eliminate confusion concerning acid base reactions which often persists through working with acid base equilibrium Many chapters provide alternative viewpoints as an aid to understanding This book addresses a very real need for a large number of incoming freshman in STEM fields **Chemistry Workbook For Dummies with Online Practice** Chris Hren, Peter J. Mikulecky, 2017-04-17 Take the confusion out of chemistry with hundreds of practice problems Chemistry Workbook For Dummies is your ultimate companion for introductory chemistry at the high school or college level Packed with hundreds of practice problems this workbook gives you the practice you need to internalize the essential concepts that form the foundations of chemistry From matter and molecules to moles and measurements these problems cover the full spectrum of topics you ll see in class and each section includes key concept review and full explanations for every problem to quickly get you on the right track This new third edition includes access to an online test bank where you ll find bonus chapter guizzes to help you test your understanding and pinpoint areas in need of review Whether you re preparing for an exam or seeking a start to finish study aid this workbook is your ticket to acing basic chemistry Chemistry problems can look intimidating it s a whole new language with different rules new symbols and complex concepts The good news is that practice makes perfect and this book provides plenty of it with easy to understand coaching every step of the way Delve deep into the parts of the periodic table Get comfortable with units scientific notation and chemical equations Work with states phases energy and charges Master nomenclature acids bases titrations redox reactions and more Understanding introductory chemistry is critical for your success in all science classes to follow keeping up with the material now makes life much easier down the education road Chemistry Workbook For Dummies gives you the practice you need to succeed Chemistry: 1,001 Practice Problems For Dummies (+ Free Online Practice) Heather Hattori, Richard H. Langley, 2014-04-14 Practice makes perfect and helps deepen your understanding of chemistry Every high school requires a course in chemistry and many universities

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Holt Chemistry Ralph Thomas Myers,2004

Student Solutions Manual Darrell Ebbing, 2005-03-17 Provides solutions to odd numbered Practice Problems General Problems and Cumulative Skills Problems plus answers to Review Questions Chemistry Homework Frank Schaffer Publications, Joan DiStasio, 1996-03 Includes the periodic table writing formulas balancing equations stoichiometry problems Partial Solutions Manual Darrell D. Ebbing, David Bookin, 1998 **Student Study Guide Fundamentals of** and more **Chemistry by David E. Goldberg** Margaret G. Kimble,1994 Chemistry: Matter & Change, Solving Problems - A Chemistry Handbook McGraw Hill, 2001-08 Glencoe Chemistry Solving Problems A Chemistry Handbook Matter and Change Chemistry and Chemical Reactivity Mary L. Kotz,1996 **Improving Student Comprehension of Stoichiometric** Concepts Connie Lynn Bannick Kemner, 2007 Study Guide for Hein and Arena's Foundations of College Chemistry Peter Scott, Rachael Enriquez Porter, 1999-04-18 Prentice Hall Chemistry ,2000 Preparatory Chemistry Howard Chemistry Charles E. Mortimer, 1983 Good No Highlights No Markup all pages are intact Slight Stephen Stoker, 1990 Shelfwear may have the corners slightly dented may have slight color changes slightly damaged spine **Basic Chemical** Principles Donada Peters, Edward I. Peters, 1988

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