

Stoichiometry

Solve the following problems:

1. Four moles of iron (II) sulfide added to seven moles of oxygen, produced two moles of iron (III) oxide and four moles of sulfur dioxide. (20pts)

a) Translate the problem to chemical equation.



Reactant side

4 Fe atoms

4 S atoms

7(2) = 14 O atoms

Product side

4 Fe atoms

4 S atoms

2(3) + 4(2) = 14 O atoms

b) How many grams of oxygen will react with 2.0 grams of iron (II) sulfide?

Given:

m FeS = 2.0 g

Req'd. = m O₂

Solution:

molar mass of FeS = 88 g/mol

mole ratio = 4 mol FeS: 7 mol O₂

molar mass of O₂ = 32 g/mol

$$m_{O_2} = 2.0 \cancel{g_{FeS}} \left(\frac{1 \cancel{mol_{FeS}}}{88 \cancel{g_{FeS}}} \right) \left(\frac{7 \cancel{mol_{O_2}}}{4 \cancel{mol_{FeS}}} \right) \left(\frac{32 \cancel{g_{O_2}}}{1 \cancel{mol_{O_2}}} \right) = 1.3 g_{O_2}$$

2. Rusting involves the reaction of iron, Fe with oxygen, O₂ to form iron (III) oxide, Fe₂O₃. (20pts)

a) Write the balanced chemical equation.



Reactant side

4 Fe atoms

3(2) = 6 O atoms

Product side

4 Fe atoms

2(3) = 6 O atoms

b) What are the mole ratios of the product to each reactant and of the reactants to each other?

Reactant to each other:

4 mol Fe: 3 mol O₂

Product to each reactant:

2 mol Fe₂O₃: 4 mol Fe

Chapter 9 1 Stoichiometry Answers

Stanley R. Radel, Marjorie H. Navidi



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Chemistry Workbook For Dummies Peter J. Mikulecky, Katherine Brutlag, Michelle Rose Gilman, Brian Peterson, 2008-08-06 From liquids and solids to acids and bases work chemistry equations and use formulas with ease Got a grasp on the chemistry terms and concepts you need to know but get lost halfway through a problem or worse yet not know where to begin Have no fear this hands on guide helps you solve many types of chemistry problems in a focused step by step manner With problem solving shortcuts and lots of practice exercises you ll build your chemistry skills and improve your performance both in and out of the science lab You ll see how to work with numbers atoms and elements make and remake compounds understand changes in terms of energy make sense of organic chemistry and more 100s of Problems Know where to begin and how to solve the most common chemistry problems Step by step answer sets clearly identify where you went wrong or right with a problem Understand the key exceptions to chemistry rules Use chemistry in practical applications with confidence **The Practice of Chemistry Study Guide & Solutions Manual** Pamela Mills, Amina El-Ashmawy, 2003-04-14 Designed to help students understand the material better and avoid common mistakes Also includes solutions and explanations to odd numbered exercises *Student Solutions Manual, Chemistry, Principles & Practice, Second Edition* John M. DeKorte, 1997 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 quizzes 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 *Modern Chemistry* Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2001 **Basic Concepts of Chemistry** Leo J. Malone, Theodore O. Dolter, 2011-12-27 The 9th edition of Malone s Basic Concepts of Chemistry provides many new and advanced features that

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