

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

Stoichiometry Problems With A Twist Answer Key

Galia Maayan, Markus Albrecht



Stoichiometry Problems With A Twist Answer Key:

Metallofoldamers Galia Maayan, Markus Albrecht, 2013-01-18 Metallofoldamers are oligomers that fold into three dimensional structures in a controlled manner upon coordination with metal ions Molecules in this class have shown an impressive ability to form single handed helical structures and other three dimensional architectures Several metallofoldamers have been applied as sensors due to their selective folding when binding to a specific metal ion while others show promise for applications as responsive materials on the basis of their ability to fold and unfold upon changes in the oxidation state of the coordinated metal ion and as novel catalysts Metallofoldamers From Helicates to Biomimetic Architectures describes the variety of interactions between oligomers and metal species with a focus on non natural synthetic molecules Topics covered include the major classes of foldamers and their folding driving force metalloproteins and metalloenzymes helicates self assembly structure and applications abiotic metallo DNA metallo PNA and iDNA metalloptides interactions of biomimetic oligomers with metal ions applications of metallofoldamers The Journal of Cell Biology ,2002 No 2 pt 2 of November issue each year from v 19 1963 47 1970 and v 55 1972 contain the Abstracts of papers presented at the Annual Meeting of the American Society for Cell Biology 3d 1963 10th 1970 and 12th 1972 **Index Medicus** ,2003 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings **Theoretical Chemical Engineering Abstracts** ,1982 *Bibliography of Agriculture with Subject Index* ,1993 **Chemical Engineering Catalog** ,1923 *Sassy Stoichiometry Problems* Julie C. Gilbert, 2021-03-14 Need more Stoichiometry practice Stoichiometry has been striking fear into the hearts of chemistry students for ages The best way to conquer something is to practice it Inside you ll find Brief descriptions of each type of ideal stoichiometry and limiting reactant stoichiometry 4 ideal stoichiometry worksheets broken down by type with keys and explanations 4 ideal stoichiometry self quizzes with their answer keys 2 limiting reactant stoichiometry worksheets with keys and explanations 2 limiting reactant stoichiometry self quizzes with answer keys 2 mixed stoichiometry self tests with answer keys This is a companion workbook for the 5 Steps to Surviving Chemistry book However you do not need to have read that book to find this workbook useful *A Stoichiometry Unit* David Callaghan, 2004

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Table of Contents Stoichiometry Problems With A Twist Answer Key

1. Understanding the eBook Stoichiometry Problems With A Twist Answer Key
 - The Rise of Digital Reading Stoichiometry Problems With A Twist Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Stoichiometry Problems With A Twist Answer Key
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Stoichiometry Problems With A Twist Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Stoichiometry Problems With A Twist Answer Key
 - Personalized Recommendations

- Stoichiometry Problems With A Twist Answer Key User Reviews and Ratings
- Stoichiometry Problems With A Twist Answer Key and Bestseller Lists
- 5. Accessing Stoichiometry Problems With A Twist Answer Key Free and Paid eBooks
 - Stoichiometry Problems With A Twist Answer Key Public Domain eBooks
 - Stoichiometry Problems With A Twist Answer Key eBook Subscription Services
 - Stoichiometry Problems With A Twist Answer Key Budget-Friendly Options
- 6. Navigating Stoichiometry Problems With A Twist Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Stoichiometry Problems With A Twist Answer Key Compatibility with Devices
 - Stoichiometry Problems With A Twist Answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Stoichiometry Problems With A Twist Answer Key
 - Highlighting and Note-Taking Stoichiometry Problems With A Twist Answer Key
 - Interactive Elements Stoichiometry Problems With A Twist Answer Key
- 8. Staying Engaged with Stoichiometry Problems With A Twist Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Stoichiometry Problems With A Twist Answer Key
- 9. Balancing eBooks and Physical Books Stoichiometry Problems With A Twist Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Stoichiometry Problems With A Twist Answer Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Stoichiometry Problems With A Twist Answer Key
 - Setting Reading Goals Stoichiometry Problems With A Twist Answer Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Stoichiometry Problems With A Twist Answer Key
 - Fact-Checking eBook Content of Stoichiometry Problems With A Twist Answer Key

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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