

Limiting Reagent Worksheet

Answers

- ① Given the following reaction:



Balance the reaction.

- ① Suppose 14.8 g of C_3H_8 reacts with 3.44 g of O_2 . Determine the limiting reagent.

$$14.8 \text{ g C}_3\text{H}_8 \times \frac{1 \text{ mol C}_3\text{H}_8}{44.09 \text{ g C}_3\text{H}_8} \times \frac{4 \text{ mol H}_2\text{O}}{1 \text{ mol C}_3\text{H}_8} \times \frac{18.02 \text{ g H}_2\text{O}}{1 \text{ mol H}_2\text{O}} = 24.2 \text{ g H}_2\text{O}$$

$$3.44 \text{ g O}_2 \times \frac{1 \text{ mol O}_2}{32 \text{ g O}_2} \times \frac{4 \text{ mol H}_2\text{O}}{5 \text{ mol O}_2} \times \frac{18.02 \text{ g H}_2\text{O}}{1 \text{ mol H}_2\text{O}} = 1.55 \text{ g H}_2\text{O}$$

Since O_2 produces less quantity of H_2O than C_3H_8 does, it is the limiting reagent.

- ② Determine the amount of CO_2 produced.

$$3.44 \text{ g O}_2 \times \frac{1 \text{ mol O}_2}{32 \text{ g O}_2} \times \frac{3 \text{ mol CO}_2}{5 \text{ mol O}_2} \times \frac{44.01 \text{ g CO}_2}{1 \text{ mol H}_2\text{O}} = 2.84 \text{ g CO}_2$$

- ② Given the following reaction:



Balance the reaction.

- ① What is the limiting reagent if 2.2 g of Mg reacts with 4.5 L of O_2 at STP?

$$2.2 \text{ g Mg} \times \frac{1 \text{ mol Mg}}{24.3 \text{ g Mg}} \times \frac{2 \text{ mol MgO}}{2 \text{ mol Mg}} = 0.0905 \text{ mol MgO}$$

$$4.5 \text{ L O}_2 \times \frac{1 \text{ mol O}_2}{22.4 \text{ L O}_2} \times \frac{2 \text{ mol MgO}}{1 \text{ mol O}_2} = 0.401 \text{ mol MgO}$$

Since Mg produces less MgO than O_2 , Mg is the limiting reagent.

- ② Determine the amount of MgO produced in grams.

$$0.095 \text{ mol MgO} \times \frac{40.31 \text{ g MgO}}{1 \text{ mol MgO}} = 3.83 \text{ g MgO}$$

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Table of Contents Limiting Reagent Homework Problems Key

1. Understanding the eBook Limiting Reagent Homework Problems Key
 - The Rise of Digital Reading Limiting Reagent Homework Problems Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Limiting Reagent Homework Problems 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 Limiting Reagent Homework Problems Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Limiting Reagent Homework Problems Key
 - Personalized Recommendations
 - Limiting Reagent Homework Problems Key User Reviews and Ratings
 - Limiting Reagent Homework Problems Key and Bestseller Lists
5. Accessing Limiting Reagent Homework Problems Key Free and Paid eBooks

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