

b) How many grams of phosphorus are required to react completely with 20.0 g of O_2 ?

$$20.0 \text{ g } O_2 \times \frac{1 \text{ mol } O_2}{31.998 \text{ g } O_2} \times \frac{4 \text{ mol P}}{5 \text{ mol } O_2} \times \frac{30.973 \text{ g P}}{1 \text{ mol P}} = 15.5 \text{ g P}$$

c) What is the theoretical yield in grams if you combine the amounts of reactants in part b?

$$20.0 \text{ g } O_2 \times \frac{1 \text{ mol } O_2}{31.998 \text{ g } O_2} \times \frac{2 \text{ mol } P_2O_5}{5 \text{ mol } O_2} \times \frac{141.941 \text{ g } P_2O_5}{1 \text{ mol } P_2O_5} = 35.5 \text{ g } P_2O_5$$

OR

$$15.5 \text{ g P} \times \frac{1 \text{ mol P}}{30.973 \text{ g P}} \times \frac{2 \text{ mol } P_2O_5}{4 \text{ mol P}} \times \frac{141.941 \text{ g } P_2O_5}{1 \text{ mol } P_2O_5} = 35.5 \text{ g } P_2O_5$$

5. A gaseous mixture containing 5.00 moles of H_2 and 7.00 moles of Br_2 reacts to form HBr .

a) Write a balanced chemical equation for this reaction.



b) Which reactant is limiting?

1 to 1 ratio
5.00 mol H_2 & 7.00 mol Br_2
 $\therefore H_2$ is limiting

c) What is the theoretical yield for this reaction in moles?

$$5.00 \text{ mol } H_2 \times \frac{2 \text{ mol } HBr}{1 \text{ mol } H_2} = 10.0 \text{ mol } HBr$$

d) What is the theoretical yield for this reaction in grams?

$$10.0 \text{ mol } HBr \times \frac{80.912 \text{ g } HBr}{1 \text{ mol } HBr} = 809 \text{ g } HBr$$

6. Sodium reacts with molecular hydrogen to form sodium hydride. A reaction mixture contains 10.0 g Na and 0.0235 g H_2 .

a) Write a balanced chemical equation for this reaction.



b) Which reactant is limiting? H_2 is limiting

$$10.00 \text{ g Na} \times \frac{1 \text{ mol Na}}{22.9898 \text{ g Na}} = 0.4350 \text{ mol Na} \quad 0.0235 \text{ g } H_2 \times \frac{1 \text{ mol } H_2}{2.0158 \text{ g } H_2} = 0.0117 \text{ mol } H_2$$
$$\frac{0.4350}{2} = 0.2175 \quad \frac{0.0117}{1} = 0.0117$$

c) What is the theoretical yield for this reaction in grams?

$$0.0117 \text{ mol } H_2 \times \frac{2 \text{ mol NaH}}{1 \text{ mol } H_2} \times \frac{23.979 \text{ g NaH}}{1 \text{ mol NaH}} = 0.562 \text{ g NaH}$$

d) When this reaction is actually performed, 0.428 g of NaH is recovered. What is the percent yield of the reaction?

$$\frac{0.428 \text{ g}}{0.562} \times 100 = 76.2\%$$

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G Psacharopoulos



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Table of Contents Periodic Trends Pogil Extension Questions Answer Key

1. Understanding the eBook Periodic Trends Pogil Extension Questions Answer Key
 - The Rise of Digital Reading Periodic Trends Pogil Extension Questions Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Periodic Trends Pogil Extension Questions 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 Periodic Trends Pogil Extension Questions Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Periodic Trends Pogil Extension Questions Answer Key
 - Personalized Recommendations
 - Periodic Trends Pogil Extension Questions Answer Key User Reviews and Ratings

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