

## Limiting Reactant

For the following reactions, find the following:

- Which of the reactants is the limiting reactant?
  - What is the maximum amount of each product that can be formed?
  - How much of the excess reactant is left over after the reaction is complete?
- See next page for calculations!

1. Consider the following reaction:



a) limiting reactant

Answer the questions above, assuming we started with 30.0 grams of ammonium nitrate and 50.0 grams of sodium phosphate.

$$\begin{aligned} & \frac{30.0 \text{ g NH}_4\text{NO}_3}{1} \times \frac{1 \text{ mol NH}_4\text{NO}_3}{80.0 \text{ g NH}_4\text{NO}_3} \times \frac{1 \text{ mol } (\text{NH}_4)_3\text{PO}_4}{3 \text{ mol NH}_4\text{NO}_3} \times \frac{149.12 \text{ g } (\text{NH}_4)_3\text{PO}_4}{1 \text{ mol } (\text{NH}_4)_3\text{PO}_4} = 18.6 \text{ g } (\text{NH}_4)_3\text{PO}_4 \\ & \frac{50.0 \text{ g Na}_3\text{PO}_4}{1} \times \frac{1 \text{ mol Na}_3\text{PO}_4}{162.94 \text{ g Na}_3\text{PO}_4} \times \frac{1 \text{ mol } (\text{NH}_4)_3\text{PO}_4}{1 \text{ mol Na}_3\text{PO}_4} \times \frac{149.12 \text{ g } (\text{NH}_4)_3\text{PO}_4}{1 \text{ mol } (\text{NH}_4)_3\text{PO}_4} = 45.5 \text{ g } (\text{NH}_4)_3\text{PO}_4 \\ & \frac{30.0 \text{ g NH}_4\text{NO}_3}{1} \times \frac{1 \text{ mol NH}_4\text{NO}_3}{80.0 \text{ g NH}_4\text{NO}_3} \times \frac{3 \text{ mol NaNO}_3}{3 \text{ mol NH}_4\text{NO}_3} \times \frac{85.00 \text{ g NaNO}_3}{1 \text{ mol NaNO}_3} = 31.9 \text{ g NaNO}_3 \end{aligned}$$

2. Consider the following reaction:



a) limiting reactant

Answer the questions at the top of this sheet, assuming we start with 100.0 grams of calcium carbonate and 45.0 grams of iron (II) phosphate.

$$\begin{aligned} & \frac{100.0 \text{ g CaCO}_3}{1} \times \frac{1 \text{ mol CaCO}_3}{100.09 \text{ g CaCO}_3} \times \frac{1 \text{ mol Ca}_3(\text{PO}_4)_2}{3 \text{ mol CaCO}_3} \times \frac{310.18 \text{ g Ca}_3(\text{PO}_4)_2}{1 \text{ mol Ca}_3(\text{PO}_4)_2} = 103.3 \text{ g Ca}_3(\text{PO}_4)_2 \\ & \frac{45.0 \text{ g FePO}_4}{1} \times \frac{1 \text{ mol FePO}_4}{150.82 \text{ g FePO}_4} \times \frac{1 \text{ mol Ca}_3(\text{PO}_4)_2}{2 \text{ mol FePO}_4} \times \frac{310.18 \text{ g Ca}_3(\text{PO}_4)_2}{1 \text{ mol Ca}_3(\text{PO}_4)_2} = 46.3 \text{ g Ca}_3(\text{PO}_4)_2 \\ & \frac{45.0 \text{ g FePO}_4}{1} \times \frac{1 \text{ mol FePO}_4}{150.82 \text{ g FePO}_4} \times \frac{1 \text{ mol Fe}_2(\text{CO}_3)_3}{2 \text{ mol FePO}_4} \times \frac{291.73 \text{ g Fe}_2(\text{CO}_3)_3}{1 \text{ mol Fe}_2(\text{CO}_3)_3} = 43.5 \text{ g Fe}_2(\text{CO}_3)_3 \end{aligned}$$

# Limiting Reactant Packet

**S Ashworth**



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**Chemistry** Rob Lewis, Wynne Evans, 2018-03-31 The fifth edition of this engaging and established textbook provides students with a complete course in chemical literacy and assumes minimal prior experience of science and maths Written in an accessible and succinct style this book offers comprehensive coverage of all the core topics in organic inorganic and physical chemistry Topics covered include bonding moles solutions and solubility energy changes equilibrium organic compounds and spectroscopy Each unit contains in text exercises and revision questions to consolidate learning at every step and is richly illustrated with diagrams and images to aid understanding This popular text is an essential resource for students who are looking for an accessible introductory textbook It is also ideal for non specialists on courses such as general science engineering environmental health or life sciences New to this Edition A foreword by Professor Sir John Meurig Thomas FRS former Director of the Royal Institution Three additional units on Gibbs Energy Changes Organic Mechanisms and Fire and Flame

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**Time-Dependent Quantum Molecular Dynamics** J. Broeckhove, L. Lathouwers, 2013-11-21 From March 30th to April 3rd 1992 a NATO Advanced Research workshop entitled Time Dependent Quantum Molecular Dynamics Theory and Experiment was held at Snowbird Utah The organizing committee consisted of J BROECKHOVE Antwerp Belgium L CEDERBAUM Heidelberg Germany L LATHOUWERS Antwerp Belgium N OHRN Gainesville Florida and J SIMONS Salt Lake City Utah Fifty two participants from eleven different countries attended the meeting at which thirty three talks and one poster session were held Twenty eight participants submitted contributions to the proceedings of the meeting which are reproduced in this volume The workshop brought together experts in different areas of molecular quantum dynamics all adhering to the time dependent approach The aim was to discuss and compare methods and applications The familiarity of the audience with the concepts of time dependent approaches greatly facilitated topical discussions and probing towards new applications A broad area of subject matter was covered including time resolved laser chemistry intramolecular dynamics photodissociation dynamics reactive and inelastic collisions as well as new time dependent methodologies This diversity in applications is reflected in the contributions included in this volume      *Food Technology*, 1961      *Research Advances in Quantum Dynamics* Paul Bracken, 2016-08-24 There continue at present many developments in the area of quantum mechanics and quantum dynamics in particular of a very fundamental nature all the way from implications for the foundations of physics to the influence of quantum mechanics on emerging technologies such as the areas of quantum semiconductors and quantum computing both of which are very important examples It is hoped that the papers in this volume will be able to provide a much needed resource for researchers with regard to current fields of research in this dynamic area      *Encyclopedia of Spectroscopy and Spectrometry*, 2016-09-22 This third edition of the Encyclopedia of Spectroscopy and Spectrometry Three Volume Set provides authoritative and comprehensive coverage of all aspects of spectroscopy and closely related subjects that use the same fundamental principles including mass spectrometry imaging techniques and applications It includes the history theoretical background details of instrumentation and technology and current applications of the key areas of spectroscopy The new edition will include over 80 new articles across the field These will complement those from the previous edition which have been brought up to date to reflect the latest trends in the field Coverage in the third edition includes Atomic spectroscopy Electronic spectroscopy Fundamentals in spectroscopy High

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### **Table of Contents Limiting Reactant Packet**

1. Understanding the eBook Limiting Reactant Packet
  - The Rise of Digital Reading Limiting Reactant Packet
  - Advantages of eBooks Over Traditional Books
2. Identifying Limiting Reactant Packet
  - 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 Reactant Packet
  - User-Friendly Interface
4. Exploring eBook Recommendations from Limiting Reactant Packet
  - Personalized Recommendations
  - Limiting Reactant Packet User Reviews and Ratings

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