



What is a Limiting Reactant?

Limiting Reactant - The reactant that is completely used up during a chemical reaction.
The chemical limits the amount of product that can be formed.

Excess Reactant - The reactant in a chemical reaction that remains after a reaction ends.



Which is the limiting reactant in the example above?

bicycle bodies

Which is the excess reactant in the example above?

bicycle wheels

Example:

A 2.00 g sample of ammonia is mixed with 4.00 g of oxygen. Which is the limiting reactant?



Note: Choose a product, and then convert both reactants into grams of that product.

It does not matter which product is chosen, but the same product must be used both times.

$$\frac{2.00 \text{ g NH}_3}{1} \times \frac{1 \text{ mole NH}_3}{17.03 \text{ g NH}_3} \times \frac{6 \text{ moles H}_2\text{O}}{4 \text{ moles NH}_3} \times \frac{18.02 \text{ g H}_2\text{O}}{1 \text{ mole H}_2\text{O}} = 3.17 \text{ g H}_2\text{O}$$

$$\frac{4.00 \text{ g O}_2}{1} \times \frac{1 \text{ mole O}_2}{32.00 \text{ g O}_2} \times \frac{6 \text{ moles H}_2\text{O}}{5 \text{ moles O}_2} \times \frac{18.02 \text{ g H}_2\text{O}}{1 \text{ mole H}_2\text{O}} = 2.70 \text{ g H}_2\text{O}$$

(The excess reactant is NH_3
because there will still be some
left over after the reaction)

Answer: The limiting reactant is O_2 because
it produces the least amount of product and
will be entirely used up during the reaction.

Activity Limiting Reactants Packet

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The Science Teacher's Activity-A-Day, Grades 5-10 Pam Walker, Elaine Wood, 2010-09-03 A hands on and fun filled resource for teaching science to middle and high school students New in the 5 Minute Fundamentals Series The Science Teacher's Activity A Day Grades 6 12 includes 180 easy five minute hook or sponge activities to capture learners attention and introduce lessons Divided into three units Physical Science Life Science and Earth and Space Science the activities cover topics based on the National Science Education Standards All the book's activities can be done with materials that are inexpensive and easy to find Includes quick and fun sponge activities that are designed to engage students All the activities take about 5 minutes to complete The Science Teacher's Activity a Day is an ideal resource for middle and high school science teachers *The Big Book of Chemistry Teacher Stories* Jeff Lark, Stories from years of teaching high school chemistry

Software Design and Development: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2013-07-31 Innovative tools and techniques for the development and design of software systems are essential to the problem solving and planning of software solutions Software Design and Development Concepts Methodologies Tools and Applications brings together the best practices of theory and implementation in the development of software systems This reference source is essential for researchers engineers practitioners and scholars seeking the latest knowledge on the techniques applications and methodologies for the design and development of software systems

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Basis for Nuclear Waste Management XIII: Volume 176 Virginia M. Oversby, Paul W. Brown, 1990-04-11 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners The Extraction and Refining of Metals Colin Bodsworth, 2018-05-04 The Extraction and Refining of Metals provides a novel approach to the science and technology of both ferrous and non ferrous metal production Rather than the traditional treatment in which one metal at a time is considered this new approach which examines several metals at a time reveals more clearly the versatility and limitations of each of the main types of process The restrictions imposed on the selection of the process routes by thermodynamic and kinetic factors and by economic and environmental constraints are examined in detail The conservation of energy and materials is emphasized and illustrated by the description of new and improved extraction methods The types of mathematical models that are being developed for computer control of production operations are indicated and worked examples demonstrate relevant thermodynamic and mass balance calculations

Fundamentals of Biochemistry Donald Voet, Judith G. Voet, Charlotte W. Pratt, 2016-02-29 Voet Voet and Pratt's Fundamentals of Biochemistry 5th Edition addresses the enormous advances in biochemistry particularly in the areas of structural biology and Bioinformatics by providing a solid biochemical foundation that is rooted in chemistry to prepare students for the scientific challenges of the future While continuing in its tradition of presenting complete and balanced coverage that is clearly written and relevant to human health and disease Fundamentals of Biochemistry 5e includes new pedagogy and enhanced visuals that provide a pathway for student learning Dissertation Abstracts International, 2009

Book of Abstracts American Chemical Society. Meeting, American Chemical Society, 1974 **Physics Briefs**, 1993

Saunders Dictionary & Encyclopedia of Laboratory Medicine and Technology James Lynne Bennington, 1984

Comprehensive authoritative definitions of terminology used in laboratory medicine Intended as a reference source for all involved health professionals and students Includes vocabulary from all related disciplines The definitions reviewed before approval were written by leading authorities the medical editors and dictionary staff Also includes acronyms symbols eponyms abbreviations and taxonomic definitions Miscellaneous appendixes including normal values **Food Engineering**, 1957 *Forensic Toxicology* Nicholas T. Lappas, Courtney M. Lappas, 2015-11-14 Forensic Toxicology Principles and Concepts takes the reader back to the origins of forensic toxicology providing an overview of the largely unchanging principles of the discipline The text focuses on the major tenets in forensic toxicology including an introduction to the discipline fundamentals of forensic toxicology analysis types of interpretations based on analytical forensic toxicology results and reporting from the laboratory to the courtroom Forensic Toxicology also contains appendices covering the principles of pharmacokinetics and pharmacodynamics immunology and immunological assays toxicogenomics and case studies Significant emphasis on the fundamental principles and concepts of forensic toxicology Provides students with an introduction to the core tenets of the discipline focusing on the concepts strategies and methodologies utilized by professionals in the field Coauthored by a forensic toxicologist with over 40 years of experience as a professor who has taught graduate courses in forensic and analytical toxicology and who has served as a consultant and expert witness in civil and criminal cases The book's companion website <http://textbooks.elsevier.com/web/Manuals.aspx?isbn=9780127999678>

features exclusive web based content **Glial-neuronal Interaction** N. Joan Abbott, 1991 *Fluidized Bed Fundamentals and Applications* D. L. Keairns, 1973 Annual Review □□□□□□□□□□□□□□□□, 1992 **Proceedings**, 1996 **Principles of Drug Therapy in Neurology** Michael V. Johnston, Robert Gross, 2008-05 Principles of Drug Therapy Second Edition provides comprehensive coverage of current drug therapy in neurology while providing the background information that neurologists and other clinicians need to understand its rationale The range of new drugs available for treatment of neurological disorders is expanding rapidly along with rapid advances in the neurosciences that are uncovering disease mechanisms Although there are many sources of drug information most are limited to basic information about indications dose and side effects However

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