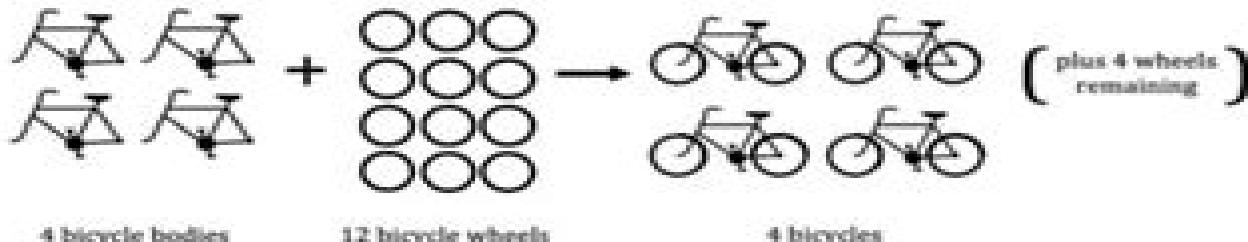




What is a Limiting Reactant?

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 NH₃, because there will still be some left over after the reaction)

Answer: The limiting reactant is O₂ because it produces the least amount of product and will be entirely used up during the reaction.

LIMITING REACTANT

Activity Limiting Reactants Packet

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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

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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

the complexity of the nervous system is enormous and the information needed to understand drug effects is accordingly often not readily available in a single source The book addresses that issue by presenting 18 focused disease related chapters by authors who are expert clinical sub specialists as well as experts on drug therapy The first chapter on fundamentals of drug therapy in neurology provides a readable synopsis of how the classic pharmacology concepts such as pharmacodynamics and pharmacokinetics are related to therapy in neurology This section also discusses the pathogenesis of potentially serious side effects such as skin rashes and liver disorders and the role of pharmacogenetics in both drug effect and side effects Outstanding chapters on movement disorders epilepsy and headaches cover major areas of drug treatment in neurology practice Additional chapters cover stroke increased intracranial pressure in the intensive care unit dementia multiple sclerosis spinal cord injury and spasticity neuromuscular disorders and pain Sleep central nervous system infections and HIV and drug intoxications are also covered Areas of special interest to child neurologists covered in the book include treatment of genetic metabolic disorders and use of stimulants and other medications for childhood cognitive disorders An excellent chapter is also provided on drug treatment of psychiatric disorders because of the important of psychiatric drugs in neurology practice This edition has been completely re written from the successful edition published in the 90s and enlarged commensurate with the exciting progress in treatment in neurology *Food Science and Technology Abstracts* ,1980 Monthly References from world literature of books about 1000 journals and patents from 18 selected countries Classified arrangement according to 18 sections such as milk and dairy products eggs and egg products and food microbiology Author subject indexes *Chemical Abstracts* ,2002

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