

## Mole Ratios

How can the coefficients in a chemical equation be interpreted?

NATALIA  
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P. 2

### Why?

A balanced chemical equation can tell us the number of reactant and product particles (ions, atoms, molecules or formula units) that are necessary to conserve mass during a chemical reaction. Typically when we balance the chemical equation we think in terms of individual particles. However, in real life the reaction represented by an equation occurs an unimaginable number of times. Short of writing very large numbers ( $10^{23}$  or larger) in front of each chemical in the equation, how can we interpret chemical equations so that they more realistically represent what is happening in real life? In this activity you will explore the different ways a chemical reaction can be interpreted.

### Model 1 – A Chemical Reaction



1. Consider the reaction in Model 1.

a. What are the coefficients for each of the following substances in the reaction?

**1**  $\text{N}_2$

**3**  $\text{H}_2$

**2**  $\text{NH}_3$

b. Draw particle models below to illustrate the reaction in Model 1.



2. Consider each situation below as it relates to the reaction in Model 1.

a. Calculate the amount of reactants consumed and products made.

b. Record the ratio of  $\text{N}_2$  to  $\text{H}_2$  to  $\text{NH}_3$ . Reduce the ratio to the lowest whole numbers possible.

	$\text{N}_2$ Consumed	$\text{H}_2$ Consumed	$\text{NH}_3$ Produced	Ratio $\text{N}_2:\text{H}_2:\text{NH}_3$ (reduced)
For a single reaction, how many molecules of each substance would be consumed or produced?	<b>1</b>	<b>3</b>	<b>2</b>	<b>1:3:2</b>
If the reaction occurred one hundred times, how many molecules would be consumed or produced?	<b>100</b>	<b>300</b>	<b>200</b>	<b>1:3:2</b>
If the reaction occurred 538 times, how many molecules would be consumed or produced?	<b>538</b>	<b>1614</b>	<b>1076</b>	<b>1:3:2</b>

# Mole Ratios Packet Model A Chemical Reaction

**H. Scott Fogler**



## **Mole Ratios Packet Model A Chemical Reaction:**

**Chemistry** James N. Spencer, George M. Bodner, Lyman H. Rickard, 2010-12-28 CHEMISTRY Chemical Process Design and Simulation: Aspen Plus and Aspen Hysys Applications Juma Haydary, 2019-01-23 A comprehensive and example oriented text for the study of chemical process design and simulation Chemical Process Design and Simulation is an accessible guide that offers information on the most important principles of chemical engineering design and includes illustrative examples of their application that uses simulation software A comprehensive and practical resource the text uses both Aspen Plus and Aspen Hysys simulation software The author describes the basic methodologies for computer aided design and offers a description of the basic steps of process simulation in Aspen Plus and Aspen Hysys The text reviews the design and simulation of individual simple unit operations that includes a mathematical model of each unit operation such as reactors separators and heat exchangers The author also explores the design of new plants and simulation of existing plants where conventional chemicals and material mixtures with measurable compositions are used In addition to aid in comprehension solutions to examples of real problems are included The final section covers plant design and simulation of processes using nonconventional components This important resource Includes information on the application of both the Aspen Plus and Aspen Hysys software that enables a comparison of the two software systems Combines the basic theoretical principles of chemical process and design with real world examples Covers both processes with conventional organic chemicals and processes with more complex materials such as solids oil blends polymers and electrolytes Presents examples that are solved using a new version of Aspen software ASPEN One 9 Written for students and academics in the field of process design Chemical Process Design and Simulation is a practical and accessible guide to the chemical process design and simulation using proven software **Scientific and Technical Aerospace Reports**, 1994 **Flows and Chemical Reactions in an Electromagnetic Field** Roger Prud'homme, 2014-10-30 This book a sequel of previous publications **Flows and Chemical Reactions** **Chemical Reactions** **Flows in Homogeneous Mixtures** and **Chemical Reactions and Flows in Heterogeneous Mixtures** is devoted to flows with chemical reactions in the electromagnetic field The first part entitled basic equations consists of four chapters The first chapter provides an overview of the equations of electromagnetism in Minkowski spacetime This presentation is extended to balance equations first in homogeneous media unpolarized in the second chapter and homogeneous fluid medium polarized in the third chapter Chapter four is devoted to heterogeneous media in the presence of electromagnetic field Balance equations at interfaces therein The second part of this volume is entitled applications It also includes four chapters Chapter five provides a study of the action of fields on fire Chapter six deals with a typical application for the Peltier effect chapter seven is devoted to metal plasma interaction especially in the Langmuir probe and finally Chapter Eight deals with the propulsion Hall effect Are given in appendix supplements the laws of balance with electromagnetic field and described the methodology for establishing one dimensional equations for flow comprising

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Solomon,2005-09-30 an interesting and well written overview of the current status of our knowledge of the composition of the middle atmosphere and the basic radiative dynamical and photochemical processes which maintain it Bulletin American Meteorological Society *Energy Research Abstracts* ,1994-08 *Physics Briefs* ,1990 Chemical Fate and Transport in the Environment Harold F. Hemond,Elizabeth J. Fechner-Levy,2000 Emphasis is placed on intuitively based mathematical models for chemical transport and transformations Although developed for a one semester graduate course Chemical Fate and Transport in the Environment Second Edition is also an essential reference for environmental practitioners in industry consulting and government agencies BOOK JACKET *Reactive Transport Modeling* Yitian Xiao,Fiona Whitaker,Tianfu Xu,2018-03-12 Teaches the application of Reactive Transport Modeling RTM for subsurface systems in order to expedite the understanding of the behavior of complex geological systems This book lays out the basic principles and approaches of Reactive Transport Modeling RTM for surface and subsurface environments presenting specific workflows and applications The techniques discussed are being increasingly commonly used in a wide range of research fields and the information provided covers fundamental theory practical issues in running reactive transport models and how to apply techniques in specific areas The need for RTM in engineered facilities such as nuclear waste repositories or CO<sub>2</sub> storage sites is ever increasing because the prediction of the future evolution of these systems has become a legal obligation With increasing recognition of the power of these approaches and their widening adoption comes responsibility to ensure appropriate application of available tools This book aims to provide the requisite understanding of key aspects of RTM and in doing so help identify and thus avoid potential pitfalls Reactive Transport Modeling covers the application of RTM for CO<sub>2</sub> sequestration and geothermal energy development reservoir quality prediction modeling diagenesis modeling geochemical processes in oil modeling gas hydrate production reactive transport in fractured and porous media reactive transport studies for nuclear waste disposal reactive flow modeling in hydrothermal systems and modeling biogeochemical processes Key features include A comprehensive reference for scientists and practitioners entering the area of reactive transport modeling RTM Presented by internationally known experts in the field Covers fundamental theory practical issues in running reactive transport models and hands on examples for applying techniques in specific areas Teaches readers to appreciate the power of RTM and to stimulate usage and application Reactive Transport Modeling is written for graduate students and researchers in academia government laboratories and industry who are interested in applying reactive transport modeling to the topic of

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30th Aerospace Sciences Meeting and Exhibit: 92-0370 - 92-0410 ,1992      *FE - EIT: AM (Engineer in Training Exam)* N. U. Ahmed,A. Al-Khafaji,2012-10-23 The ONLY book with 3 full length 4 hour exams plus 12 comprehensive reviews for the AM portion of the FE EIT Step by step explanations are presented Knowledge of the first 90 semester credit hours of a typical engineering program are tested Thorough reviews are provided for all areas tested on the FE including the two new sections Computers and Ethics For engineering students who are pursuing an Engineer in Training certification

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