

### Chapter 1: Stoichiometry

Q4.

Sol:  $\text{CaCO}_3 \longrightarrow \text{CaO} + \text{CO}_2$

Since 1 mole of  $\text{CaCO}_3$  produces 1 mole of  $\text{CaO}$ , So

1 mole of  $\text{CaO}$  will produce 1 mole of  $\text{CaCO}_3$ .

$\therefore$  1 mole of  $\text{CaO}$   $\longrightarrow$  1 mole of  $\text{CaCO}_3$ .

Sol:  $\text{BaCl}_2 \longrightarrow \text{BaSO}_4$

Given:

5 moles of  $\text{BaCl}_2$  contains 5 moles of  $\text{Ba}$  & 10 moles of  $\text{Cl}$  & each form 5 moles of  $\text{BaSO}_4$ ,  $\therefore$  each 1 mole of  $\text{BaSO}_4$  contains 1 mole of  $\text{Ba}$ .

Sol:  $2 \text{Na} \longrightarrow \text{Na}_2\text{O}$

5 moles  $\text{O}_2$  given:

$\therefore$  2 moles produces 1 mole of  $\text{Na}_2\text{O}$

$\therefore$  5  $\longrightarrow$   $\frac{5}{2}$

$\therefore$  5  $\longrightarrow$   $5 \times \frac{1}{2} = 2.5$  moles of  $\text{Na}_2\text{O}$ .

Q1.

Ans:  $\text{Ca} + \frac{1}{2} \text{O}_2 \longrightarrow \text{CaO}$  (balanced chemical equation)

Wt. of  $\text{Ca} = 40 \text{ g/mole}$

So, moles of  $\text{Ca} = \frac{80}{40} = 2 \text{ moles}$

From above balanced chemical equation: 2 moles of  $\text{Ca}$  react with  $\frac{1}{2} \times 2$  moles of  $\text{O}_2$ .

Wt. of  $\text{O}_2$  with which 80g of  $\text{Ca}$  react  $= \frac{1}{2} \times 32 = 16 \text{ g}$

Ans.

Q2.

Sol:  $\text{NaCl} \longrightarrow \text{NaCl}$

50 gm

If we have not balanced the chemical equation, then we have to apply P.M.C. rule or g-equivalent rule.

By P.M.C. rule (I solved)

Mass of  $\text{Cl}$  absorbed before reaction = Mass of  $\text{Cl}$  absorbed after reaction

Mass of moles of  $\text{NaCl} = \text{Wt.} = 2 = \text{mass of moles of } \text{Cl}_2 = \text{Wt.}$

$\frac{70}{55.5} = 2 = \text{moles of } \text{Cl}_2$

moles of  $\text{Cl}_2 = \frac{70}{111}$

# Modern Approach To Chemical Calculations Solutions

**Eli Ruckenstein, Ivan L. Shulgin**



## Modern Approach To Chemical Calculations Solutions:

**Physical Chemistry of Electrolyte Solutions** Josef Barthel, H. Krienke, Werner Kunz, W. Kunz, 1998-04 The aim and purpose of this book is a survey of our actual basic knowledge of electrolyte solutions It is meant for chemical engineers looking for an introduction to this field of increasing interest for various technologies and for scientists wishing to have access to the broad field of modern electrolyte chemistry

**Thermodynamics of Solutions** Eli Ruckenstein, Ivan L. Shulgin, 2009-06-17 This book consists of a number of papers regarding the thermodynamics and structure of multicomponent systems that we have published during the last decade Even though they involve different topics and different systems they have something in common which can be considered as the signature of the present book First these papers are concerned with difficult or very nonideal systems i e systems with very strong interactions e g hyd gen bonding between components or systems with large differences in the partial molar v umes of the components e g the aqueous solutions of proteins or systems that are far from normal conditions e g critical or near critical mixtures Second the conventional th modynamic methods are not sufficient for the accurate treatment of these mixtures Last but not least these systems are of interest for the pharmaceutical biomedical and related ind tries In order to meet the thermodynamic challenges involved in these complex mixtures we employed a variety of traditional methods but also new methods such as the fluctuation t ory of Kirkwood and Buff and ab initio quantum mechanical techniques The Kirkwood Buff KB theory is a rigorous formalism which is free of any of the proximations usually used in the thermodynamic treatment of multicomponent systems This theory appears to be very fruitful when applied to the above mentioned difficult systems

*Handbook of Computational Chemistry* Jerzy Leszczynski, 2012-01-14 This handbook is a guide to current methods of computational chemistry explaining their limitations and advantages and providing examples of their applications The first part outlines methods the balance of volumes present numerous important applications

**A History of Modern Chemistry** Noboru Hirota, 2016 This publication is a translation of the book entitles Gendai Kagakusi A History of Modern Chemistry published by Kyoto University Press in 2013

Chemistry Jerry A. Bell, American Chemical Society, 2005 The American Chemical Society has launched an activities based student centered approach to the general chemistry course a textbook covering all the traditional general chemistry topics but arranged in a molecular context appropriate for biology environmental and engineering students Written by industry chemists and educators Chemistry combines cooperative learning strategies and active learning techniques with a powerful media supplements package to create an effective introductory text Online description

*Computational Approaches for Studying Enzyme Mechanism Part A*, 2016-08-04 Computational Approaches for Studying Enzyme Mechanism Part A is the first of two volumes in the Methods in Enzymology series focusses on computational approaches for studying enzyme mechanism The serial achieves the critically acclaimed gold standard of laboratory practices and remains one of the most highly respected publications in the molecular biosciences Each volume is

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Viktor Evgen'evich Borisenko,2013 This book presents invited reviews and original short notes of recent results obtained in studies concerning the fabrication and application of nanostructures which hold great promise for the next generation of electronic optoelectronic and energy conversion devices Covering exciting and relatively new topics such as fast progressing nanoelectronics and optoelectronics molecular electronics and spintronics nanophotonics nanosensorics and nanoenergetics as well as nanotechnology and quantum processing of information this book gives readers a more complete understanding of the practical uses of nanotechnology and nanostructures      *Physics, Chemistry And Applications Of Nanostructures -*

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The Modern Soap and Detergent Industry, Including Glycerol Manufacture Geoffrey Martin, 1924

*Quality Assurance for Chemistry and Environmental Science* Günther Meinrath, Petra Schneider, 2007-09-27

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