

Study Guide for Chapter 7 – Chemical Quantities

Test Setup: Multiple Choice, Matching, Problems: Find molar mass, determine % composition, Molar conversions will include all of the following: moles-particles, moles-mass, and moles-volume, determine the empirical formulas & molecular formulas by looking at actual formulas.

Sections in the Book:

7.1 – The Mole: A Measurement of Matter

Objectives:

- Describe how Avogadro's number is related to a mole of any substance
- Calculate the mass of a mole of any substance

Vocabulary:

- mole (mol), Avogadro's number, representative particle

Practice Problems:

1. Find the molar mass of Li_2S .
2. Find the molar mass of $\text{Ca}(\text{OH})_2$.
3. How many moles in 1.50×10^{23} molecules NH_3 .
4. How many formula units in 6.78 moles of sodium chloride (NaCl)

7.2 – Mole-Mass and Mole-Volume Relationships

Objectives:

- Use the molar mass to convert between mass and moles of a substance.
- Use the mole to convert among measurements of mass and volume of substances.

Vocabulary:

- molar mass, standard temperature and pressure (STP), molar volume

Practice Problems:

1. What is the mass in grams of 0.160 mol H_2O_2 ?
2. How many moles are in 508.4 g $\text{Ca}(\text{NO}_3)_2$?
3. Calculate the volume, in liters, of 8.75 mol of chlorine gas at STP.
4. How many moles are in a container filled with 45.9 L of oxygen gas at STP?

7.3 – Percent Composition and Chemical Formulas

Objectives:

- Calculate the percent composition of a substance from its chemical formula or experimental data.
- Derive the empirical formula and the molecular formula of a compound from experimental data.

Chemical Quantities Study Guide

Iris Stovall,Donald J. DeCoste

Chemical Quantities Study Guide:

Study Guide for Introductory Chemistry, a Foundation, Introductory Chemistry, Basic Chemistry Iris Stovall, Steven S. Zumdahl, 1996 **Chemistry for Nerds Guide Book: Chemistry, Science, Nerd, Geek, Textbook, Guidebook, Study Guide, Educational, STEM, Science Gift** Matt Kingsley, Calling all curious minds and science enthusiasts Are you fascinated by the invisible forces that shape our world Do you crave a deeper understanding of the elements molecules and reactions that make up everything around us Then look no further than Chemistry for Nerds Unleash Your Inner Mad Scientist This isn't your typical boring textbook This is a thrilling adventure through the captivating world of chemistry written in a way that's engaging accessible and downright fun Inside these pages you'll discover The secrets of matter From atoms and molecules to the states of matter and the laws that govern them The magic of reactions Explore the explosive world of chemical reactions from kinetics and equilibrium to acids bases and buffers The wonders of the elements Unravel the mysteries of the periodic table and the trends that connect its diverse inhabitants The power of chemistry in action See how chemistry shapes our environment fuels our technologies and even sustains life itself Chemistry for Nerds is packed with Crystal clear explanations Complex concepts are broken down into bite sized pieces making even the most challenging topics easy to grasp Engaging examples and analogies Relate chemistry to everyday life with fun and memorable examples Expert practical tips Put your knowledge into action with helpful tips and tricks for mastering chemistry concepts Whether you're a student a hobbyist or simply curious about the world around you Chemistry for Nerds will ignite your passion for science and unleash your inner mad scientist Get your copy today and start exploring the amazing world of chemistry

Study Guide/Selected Solutions Manual Julie R. Frentrup, 2002-06 Contains a brief overview of every chapter review of skills self tests and the answers and detailed solutions to all odd numbered end of chapter problems in the text book

Study Guide for Introductory Chemistry Iris Stovall, 1990 ***Study Guide and Solutions Manual for Fundamentals of General, Organic, and Biological Chemistry*** Susan McMurry, 1992

Study Guide and Glossary to Accompany Chemical Principles Daniel L. Reger, Edward E. Mercer, Robert S. Boikess, 1978 ***Study Guide, Introductory Chemistry, a Foundation ; Introductory Chemistry ; Basic Chemistry*** Iris Stovall, Donald J. DeCoste, 2000 **Introductory Chemistry Study Guide Holder**, 2003-05

Study Guide for Atoms, Molecules, and Life Michael S. Matta, 1981 **The Publishers' Trade List Annual**, 1982 **Study guide to accompany chemistry** Karen Timberlakes, 1983

Student Study Guide to Accompany Petrucci's General Chemistry, 3rd. Ed Robert K. Wismer, 1982 ***General Chemistry Study Guide Sixth Edition***

Darrell D. Ebbing, 1999 **Fundamentals of Chemistry** Burns A. Ralph, Charles Baker, Claire Baker, 1995 This book is a supplement to the texts not a replacement It is intended to maximize your success in this course by showing you how to become involved in developing your own techniques for grasping the concepts of chemistry Using a study outline problem sets problem examples worked and unworked and numerous self tests with answers this manual will provide you with

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