

# ACS GENERAL CHEMISTRY FINAL STUDY GUIDE

Avagadro's Number -  $N_A = 6.023 \times 10^{23}$

Percent Yield -  $(\text{Actual Yield}/\text{Theoretical Yield}) \times 100$

Percent Composition (of an Element) -  $[(\text{moles of element} \times \text{molar mass of element})/(\text{molar mass of compound})] \times 100$

Dilution Equation -  $M_1V_1 = M_2V_2$   
Mass and Volume

Boyle's Law -  $P_1V_1 = P_2V_2$   
Pressure and Volume

Charles' Law -  $V_1/T_1 = V_2/T_2$   
Volume and Temperature

Ideal Gas Law -  $PV = nRT$

Volume of an Ideal Gas at STP - 22.4 L

Density (Ideal Gas) -  $(P \times \text{Molar Mass})/(RT)$

Definition of Entahipy -  $H = E + PV$

Definition of Heat Capacity -  $C = ms$   
 $s = \text{specific heat}$

ion - different number of electrons

isotopes - different number of neutrons

Periodic Table Trends - As you go down or left atomic radius increases  
As you go up or right ionization energy and electron affinity increases

Ionic Bonds - to charged pieces come together and then there are cations or anions

Covalent Bonds - are when two non metals share electrons

A Compound is probably soluble if it contains these anions: -  $\text{Cl}^-$   
 $\text{Br}^-$   
 $\text{I}^-$

# General Chemistry Final Study Guide

**Yan Bai**

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red circular glow behind it.

## General Chemistry Final Study Guide:

**ACS General Chemistry Study Guide**, 2020-07-06 Test Prep Books ACS General Chemistry Study Guide Test Prep and Practice Test Questions for the American Chemical Society General Chemistry Exam Includes Detailed Answer Explanations Made by Test Prep Books experts for test takers trying to achieve a great score on the ACS General Chemistry exam This comprehensive study guide includes Quick Overview Find out what's inside this guide Test Taking Strategies Learn the best tips to help overcome your exam Introduction Get a thorough breakdown of what the test is and what's on it Atomic Structure Electronic Structure Formula Calculations and the Mole Stoichiometry Solutions and Aqueous Reactions Heat and Enthalpy Structure and Bonding States of Matter Kinetics Equilibrium Acids and Bases Solubility Equilibria Electrochemistry Nuclear Chemistry Practice Questions Practice makes perfect Detailed Answer Explanations Figure out where you went wrong and how to improve Studying can be hard We get it That's why we created this guide with these great features and benefits Comprehensive Review Each section of the test has a comprehensive review created by Test Prep Books that goes into detail to cover all of the content likely to appear on the test Practice Test Questions We want to give you the best practice you can find That's why the Test Prep Books practice questions are as close as you can get to the actual ACS General Chemistry test Answer Explanations Every single problem is followed by an answer explanation We know it's frustrating to miss a question and not understand why The answer explanations will help you learn from your mistakes That way you can avoid missing it again in the future Test Taking Strategies A test taker has to understand the material that is being covered and be familiar with the latest test taking strategies These strategies are necessary to properly use the time provided They also help test takers complete the test without making any errors Test Prep Books has provided the top test taking tips Customer Service We love taking care of our test takers We make sure that you interact with a real human being when you email your comments or concerns Anyone planning to take this exam should take advantage of this Test Prep Books study guide Purchase it today to receive access to ACS General Chemistry review materials ACS General Chemistry exam Test taking strategies

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