

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: - Cl^-
 Br^-
 I^-

General Chemistry Final Study Guide

Ensheng Dong



General Chemistry Final Study Guide:

Decoding **General Chemistry Final Study Guide**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**General Chemistry Final Study Guide**," a mesmerizing literary creation penned with a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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