

CHAPTER 2

Atoms, Molecules, and Ions

Solution Manual for General Chemistry, 10th
Edition, Darrell D. Ebbing, Steven D. Gammon

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■ SOLUTIONS TO EXERCISES

Note on significant figures: If the final answer to a solution needs to be rounded off, it is given first with one nonsignificant figure, and the last significant figure is underlined. The final answer is then rounded to the correct number of significant figures. In multistep problems, intermediate answers are given with at least one nonsignificant figure; however, only the final answer has been rounded off.

2.1. The element with atomic number 17 (the number of protons in the nucleus) is chlorine, symbol Cl. The mass number is $17 + 18 = 35$. The symbol is ^{35}Cl .

2.2. Multiply each isotopic mass by its fractional abundance; then sum:

$$34.96885 \text{ amu} \times 0.75771 = 26.496247$$

$$36.96590 \text{ amu} \times 0.24229 = 8.956667$$

$$35.452914 = 35.453 \text{ amu}$$

The atomic mass of chlorine is 35.453 amu.

- 2.3.
- a. Se: Group VIA, Period 4; nonmetal
 - b. Cs: Group IA, Period 6; metal
 - c. Fe: Group VIIIB, Period 4; metal
 - d. Cu: Group IB, Period 4; metal
 - e. Br: Group VIIA, Period 4; nonmetal

2.4. Take as many cations as there are units of charge on the anion and as many anions as there are units of charge on the cation. Two K^+ ions have a total charge of $2+$, and one CrO_4^{2-} ion has a charge of $2-$, giving a net charge of zero. The simplest ratio of K^+ to CrO_4^{2-} is 2:1, and the formula is K_2CrO_4 .

- 2.5.
- a. CaO : Calcium, a Group IIA metal, is expected to form only a $2+$ ion (Ca^{2+} , the calcium ion). Oxygen (Group VIA) is expected to form an anion of charge equal to the group number minus 8 (O^{2-} , the oxide ion). The name of the compound is calcium oxide.
 - b. PbCrO_4 : Lead has more than one monatomic ion. You can find the charge on the Pb ion if you know the formula of the anion. From Table 2.5, the CrO_4 refers to the anion CrO_4^{2-} (the

Experiments In General Chemistry 10th Edition Solutions

M Woodhall



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Experiments in General Chemistry □□□□□□□□, 2009-01-01 *The Experimental Basis of Chemistry* Ida Freund, 2015-05-21 Originally published in 1920 this book consists of a series of illustrative experiments by the chemist and educationalist Ida Freund **Journal of Research of the National Bureau of Standards** United States. National Bureau of Standards, 1965 **Research in School and College Personnel Services** Paul Macminn, United States. Office of Education, Carroll Hiram Miller, Frank E. Wellman, 1960 **Stoichiometry and Research** Alessio Innocenti, 2012-03-07 The aim of this book is to provide an overview of the importance of stoichiometry in the biomedical field It proposes a collection of selected research articles and reviews which provide up to date information related to stoichiometry at various levels The first section deals with host guest chemistry focusing on selected calixarenes cyclodextrins and crown ethers derivatives In the second and third sections the book presents some issues concerning stoichiometry of metal complexes and lipids and polymers architecture The fourth section aims to clarify the role of stoichiometry in the determination of protein interactions while in the fifth section some selected experimental techniques applied to specific systems are introduced The last section of the book is an attempt at showing some interesting connections between biomedicine and the environment introducing the concept of biological stoichiometry On this basis the present volume would definitely be an ideal source of scientific information to researchers and scientists involved in biomedicine biochemistry and other areas involving stoichiometry evaluation Concise Chemistry class 10 icse solutions Amar Bhutani, This book includes the solutions to the questions given in the textbook ICSE Concise Chemistry Class 10 published by Selina Publications and is for March 2022 Examinations **Resources in Education** , 1995 **Current Catalog** National Library of Medicine (U.S.), 1979 First multi year cumulation covers six years 1965 70 The Chemical News and Journal of Physical Science , 1870 Research in Education , 1971 Nanoscience and Nanotechnology, Proceedings of the INFN-LNF 2018 Conference Stefano Bellucci, 2020-01-03 The results presented in this volume highlight some of the most recent advances in nanoscience and nanotechnology studies from both the physical and chemical point of view with an eye also to possible engineering applications These studies demonstrate directly how effective and at the same time stimulating is implementing the cross fertilization procedure Indeed multidisciplinary research allows one to catch more easily the analogies inherent different areas of science as well as to take advantage and optimize different methods and techniques often borrowed from other research areas In the present Special Issue we included six published papers The latter contributions on the one hand are developed at the theory level and on the other hand show experimental results on the realization and experimental characterization of nanostructured systems suitable for yielding progress towards the realization of systems and devices that can ultimately lead to industrial applications The results show that recent scientific research advances in these areas may provide important steps in the direction of fostering innovation and technological development **Catalog of Copyright**

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 - The Rise of Digital Reading Experiments In General Chemistry 10th Edition Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Experiments In General Chemistry 10th Edition Solutions
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Experiments In General Chemistry 10th Edition Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Experiments In General Chemistry 10th Edition Solutions
 - Personalized Recommendations
 - Experiments In General Chemistry 10th Edition Solutions User Reviews and Ratings
 - Experiments In General Chemistry 10th Edition Solutions and Bestseller Lists
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 - Experiments In General Chemistry 10th Edition Solutions Budget-Friendly Options

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 - Experiments In General Chemistry 10th Edition Solutions Enhanced eBook Features
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 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Experiments In General Chemistry 10th Edition Solutions
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 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Experiments In General Chemistry 10th Edition Solutions
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 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
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 - Setting Reading Goals Experiments In General Chemistry 10th Edition Solutions
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Experiments In General Chemistry 10th Edition Solutions
 - Fact-Checking eBook Content of Experiments In General Chemistry 10th Edition Solutions
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
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