

This is like a distribution in math. $2(x+3) \rightarrow 2x+6$
 Everything inside of the parentheses is multiplied by two.

b. What does the subscripted "2" outside the parentheses of the chemical formula tell you about the compound?

The subscript "2" outside of $\text{Ba}(\text{NO}_3)_2$ the parentheses indicate that there are two of the polyatomic ion nitrate (NO_3^-).

20. How many atoms of each element are in one formula unit of ammonium phosphate, $(\text{NH}_4)_3\text{PO}_4$?

nitrogen

3

hydrogen

12

phosphorus

1

oxygen

4

21. A student writes the chemical formula for the ionic compound calcium hydroxide as CaOH_2 .

a. Write the chemical formula for each ion in the compound.

Calcium: Ca^{+2}

Hydroxide: OH^-

b. Why is the student's chemical formula for the compound calcium hydroxide wrong?

The subscript of "2" after hydrogen (H) indicate two hydrogens, not two hydroxide polyatomic ions. Parentheses should be placed around OH^- and a subscript of "2" should be placed outside of the parentheses.

22. Many of the chemical formulas in Model 3 include parentheses. Which one of the following rules summarizes the appropriate use of parentheses in ternary ionic compounds? For the three rules that do not apply in all cases, show at least one counter example from the chemical formulas in Model 3.

Parentheses are used around any ion that is used more than once in a formula unit.

↳ Not true - $\text{Al}_2(\text{CO}_3)_3$ - Al has more than one atom.

Parentheses are used around any polyatomic ion.

↳ Not true - KNO_3 - NO_3^- has no parentheses because there is only one.

Parentheses are used around any polyatomic ion used more than once in a formula unit.

Parentheses are only used around polyatomic anions used more than once in a formula unit.

↳ Not true - $(\text{NH}_4)_3\text{PO}_4$ - ammonium is a polyatomic cation. (NH_4^+)

23. Write chemical formulas for the following ternary ionic compounds.

a. Calcium sulfate



b. Copper(II) nitrate



c. Lithium phosphate



d. Potassium permanganate



e. Aluminum sulfite



f. Magnesium bicarbonate



Polyatomic Ion Packet Answers

Ken Hughes, Paul B. Kelter



Polyatomic Ion Packet Answers:

Molecular Reaction Dynamics Raphael D. Levine, 2009-06-04 Molecular reaction dynamics is the study of chemical and physical transformations of matter at the molecular level The understanding of how chemical reactions occur and how to control them is fundamental to chemists and interdisciplinary areas such as materials and nanoscience rational drug design environmental and astrochemistry This book provides a thorough foundation to this area The first half is introductory detailing experimental techniques for initiating and probing reaction dynamics and the essential insights that have been gained The second part explores key areas including photoselective chemistry stereochemistry chemical reactions in real time and chemical reaction dynamics in solutions and interfaces Typical of the new challenges are molecular machines enzyme action and molecular control With problem sets included this book is suitable for advanced undergraduate and graduate students as well as being supplementary to chemical kinetics physical chemistry biophysics and materials science courses and as a primer for practising scientists *Russian Chemical Reviews*, 2001 *Biology a Search for Order in* Christian Libery Press, Test Packet, 2005-01-14 *Biology A Search For Order In Complexity* is a classic text originally developed by the Creation Research Society now updated and available for your student in a full color edition beautifully photographed and illustrated This hardbound text contains a thorough presentation of biological concepts and is scientifically accurate and true to six day young earth creationism Grades 10 12 *Study Guide and Solutions Manual to accompany Basic Concepts of Chemistry, 9th Edition* Leo J. Malone, 2011-12-07 This is the Study Guide and Solutions Manual to accompany Malone's *Basic Concepts of Chemistry* *Investigations Into the Origins of Polyatomic Ions in Inductively Coupled Plasma-mass Spectrometry*, 2010 An inductively coupled plasma mass spectrometer ICP MS is an elemental analytical instrument capable of determining nearly all elements in the periodic table at limits of detection in the parts per quadrillion and with a linear analytical range over 8 10 orders of magnitude Three concentric quartz tubes make up the plasma torch Argon gas is spiraled through the outer tube and generates the plasma powered by a looped load coil operating at 27.1 or 40.6 MHz The argon flow of the middle channel is used to keep the plasma above the innermost tube through which solid or aqueous sample is carried in a third argon stream A sample is progressively desolvated atomized and ionized The torch is operated at atmospheric pressure To reach the reduced pressures of mass spectrometers ions are extracted through a series of two approximately one millimeter wide circular apertures set in water cooled metal cones The space between the cones is evacuated to approximately one torr The space behind the second cone is pumped down to or near to the pressure needed for the mass spectrometer MS The first cone called the sampler is placed directly in the plasma plume and its position is adjusted to the point where atomic ions are most abundant The hot plasma gas expands through the sampler orifice and in this expansion is placed the second cone called the skimmer After the skimmer traditional MS designs are employed i.e. quadrupoles magnetic sectors time of flight ICP MS is the leading trace element analysis technique One of its weaknesses

are polyatomic ions This dissertation has added to the fundamental understanding of some of these polyatomic ions their origins and behavior Although mainly continuing the work of others certain novel approaches have been introduced here Chapter 2 includes the first reported efforts to include high temperature corrections to the partition functions of the polyatomic ions in ICP MS This and other objections to preceeding papers in this area were addressed Errors in the measured T sub gas values were found for given errors in the experimental and spectroscopic values The ionization energy of the neutral polyatomic ion was included in calculations to prove the validity of ignoring more complicated equilibria Work was begun on the question of agreement between kinetics of the plasma and interface and the increase and depletion seen in certain polyatomic ions This dissertation was also the first to report day to day ranges for T sub gas values and to use a statistical test to compare different operating conditions This will help guide comparisons of previous and future work Chapter 4 was the first attempt to include the excited electronic state 2 in the partition function of ArO as well as the first to address the different dissociation products of the ground and first electronic levels of ArO Chapter 5 reports an interesting source of memory in ICP MS that could affect mathematical corrections for polyatomic ions For future work on these topics I suggest the following experiments and investigations Clearly not an extensive list they are instead the first topics curiosity brings to mind 1 Measurement of T sub gas values when using the flow injection technique of Appendix B It was believed that there was a fundamental difference in the plasma when the auto sampler was used versus a continuous injection Is this reflected in T sub gas values 2 The work of Chapter 3 can be expanded and supplemented with more trials new cone materials i e copper stainless steel and more cone geometries Some of this equipment is already present in the laboratory others could be purchased or made 3 T sub gas values from Chapter 3 could be correlated with instrument pressures during the experiment Pressures after the skimmer cone were recorded for many days but have yet to be collated with the measured T sub gas values 4 The work in Chapter 5 could be expanded to include more metals Does the curious correlation between measured T sub gas and element boiling point persist 5 Investigate non linear correlations to T sub gas values of the MO memory in Chapter 5 Temperatures along the skimmer walls are not a linear gradient Ring deposits have been observed on the cone and photographs of the interface show light intensities shaping a sort of tailing peak along the outside skimmer wall Is there a physical property of the metals or metal oxides that would give this peak with the T sub gas values 6 Chemical state speciation of the metal deposits on the skimmers of Chapter 5 There may be a more logical correlation between Tgas and a physical property of the deposit ing chemical if all the metals do not deposit in the same form 7 A collaboration with our computational colleagues would be most welcome Newer calculations for ArO and RuO would be very helpful

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High Resolution Studies of the Origins of Polyatomic Ions in Inductively Coupled Plasma-Mass Spectrometry Jill Wisnewski Ferguson, 2006 The inductively coupled plasma ICP is an atmospheric pressure ionization source Traditionally the plasma is sampled via a sampler cone A supersonic jet develops behind the sampler and this region is pumped down to a pressure of approximately one Torr A skimmer cone is located inside this zone of silence to transmit ions into the mass spectrometer The position of the sampler and skimmer cones relative to the initial radiation and normal analytical zones of the plasma is key to optimizing the useful analytical signal 1 The ICP both atomizes and ionizes the sample Polyatomic ions form through ion molecule interactions either in the ICP or during ion extraction 1 Common polyatomic ions that inhibit analysis include metal oxides MO sup adducts with argon the gas most commonly used to make up the plasma and hydride species While high resolution devices can separate many analytes from common interferences this is done at great cost in ion transmission efficiency a loss of 99% when using high versus low resolution on the same instrument 2 Simple quadrupole devices which make up the bulk of ICP MS instruments in existence do not present this option Therefore if the source of polyatomic interferences can be determined and then manipulated this could potentially improve the figures of merit on all ICP MS devices not just the high resolution devices often utilized to study

polyatomic interferences **Study Guide to Accompany Basics for Chemistry** Martha Mackin, 2012-12-02 Study Guide to Accompany Basics for Chemistry is an 18 chapter text designed to be used with Basics for Chemistry textbook Each chapter contains Overview Topical Outline Skills and Common Mistakes which are all keyed to the textbook for easy cross reference The Overview section summarizes the content of the chapter and includes a comprehensive listing of terms a summary of general concepts and a list of numerical exercises while the Topical Outline provides the subtopic heads that carry the corresponding chapter and section numbers as they appear in the textbook The Fill in Multiple Choice are two sets of questions that include every concept and numerical exercise introduced in the chapter and the Skills section provides developed exercises to apply the new concepts in the chapter to particular examples The Common Mistakes section is designed to help avoid some of the errors that students make in their effort to learn chemistry while the Practical Test section includes matching and multiple choice questions that comprehensively cover almost every concept and numerical problem in the chapter After briefly dealing with an overview of chemistry this book goes on exploring the concept of matter energy measurement problem solving atom periodic table and chemical bonding These topics are followed by discussions on writing names and formulas of compounds chemical formulas and the mole chemical reactions calculations based on equations gases and the properties of a liquid The remaining chapters examine the solutions acids bases salts oxidation reduction reactions electrochemistry chemical kinetics and equilibrium and nuclear organic and biological chemistry This study guide will be of great value to chemistry teachers and students *The Particulate Nature of Polyatomic Ions* ,2007

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