

# Calculate Concentration Of Solution

Numerical Chemistry  
Dissolved Gas Concentration in Water  
Chemistry Workbook For Dummies  
Clinical Calculations - E-Book  
Calibration and Validation of Analytical Methods  
Contemporary Chemistry: A Practical Approach  
Problems in Physical Chemistry  
Calculations for Molecular Biology and Biotechnology  
Nelson Modular Science  
Sif: Chemistry 55n  
Tb  
Chemistry Equations & Answers  
Pharmaceutical and Clinical Calculations, 2nd Edition  
Practical Pharmaceutical Calculations  
Study Guide  
Introductory Chemistry  
Linne & Ringsrud's Clinical Laboratory Science - E-Book  
Effective Learning in the Life Sciences  
Nelson Modular Science  
Chemistry  
Chemistry for the Biosciences  
Introductory Chemistry Online!  
Modern Analytical Chemistry  
A Textbook of Nanoscience and Nanotechnology  
Certificate Chemistry Form 3  
AACN Procedure Manual for Critical Care - E-Book  
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Chemical Equilibria  
Proceedings of the Royal Society. Section A, Mathematical and Physical Science

## **Numerical Chemistry**

This Standard specifies the method that uses headspace gas-liquid chromatography to determine the monomer content of residual vinyl chloride in polyvinyl chloride (PVC). This Standard applies to the determination of PVC resin and vinyl chloride monomer content in its compound, the detection range is 0.1 ug/g - 3.0 ug/g.

## **Dissolved Gas Concentration in Water**

Study more effectively and improve your performance at exam time with this comprehensive guide. The study guide includes: chapter summaries that highlight the main themes, study goals with section references, solutions to all textbook Example problems, and over 1,500 practice problems for all sections of the textbook. The Study Guide helps you organize the material and practice applying the concepts of the core text. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

## **Chemistry Workbook For Dummies**

The only text that covers all four major methods of drug calculation, *Clinical Calculations: With Applications to General and Specialty Areas*, 7th Edition emphasizes patient safety above all else. It reflects the medications used in clinical practice today, with clear guidelines on the latest drug

administration forms, techniques, and devices for both general and specialty areas. Plus, its user-friendly format and abundance of practice problems make it easy to understand and apply key drug calculation concepts. Coverage of all 4 major drug calculation methods — ratio & proportion, formula, fractional equation, and dimensional analysis — allows you to apply the method that works best for you. A section on specialty areas and lifespan prepares you for the wide range of clinical calculations needed to practice in pediatric, critical care, labor & delivery, and community settings. Caution boxes alert you to problems or issues related to various drugs and their administration. A comprehensive post-test enables you to test your understanding of key concepts from the text. Current drug information ensures you are familiar with the most commonly used drugs in clinical practice. Up-to-date content on the latest drug administration techniques and devices helps you master the various forms of drug administration, including oral, intravenous, intra-muscular, subcutaneous, and other routes. Remember boxes identify pertinent concepts you should commit to memory. Note boxes emphasize important points related to concepts presented in each chapter. NEW! Prevention of Medication Errors chapter emphasizes patient safety to help you avoid common drug calculation and administration mistakes. NEW! Updated recommendations from The Joint Commission and the Institute for Safe Medication Practices offer helpful guidelines for reducing medication errors to ensure safe patient care outcomes. NEW! Updated medication label and equipment photos reflect the

latest medications and technology used in drug administration.

### **Clinical Calculations - E-Book**

Pharmacists are required to make certain kinds of calculations that determine the quantities of materials required for filling prescriptions and making up formulas. The new and expanded topics introduced in the fourth edition teach pharmacists and pharmacy students how to do the calculations required in current practice, covering important areas such as handling injectibles, including those used in parenteral nutrition and radiopharmaceuticals. The book also includes new chapters on isotonicity, intravenous fluids, and nutritional calculations. Features: \* New concepts introduced in sequence, encouraging the student to master each concept before moving ahead \* Many examples and practice problems, all with answers and the availability of rapid feedback build confidence \* Filled with practical instruction relevant to the problems pharmacist face in their practice

### **Calibration and Validation of Analytical Methods**

### **Contemporary Chemistry: A Practical Approach**

### **Problems in Physical Chemistry**

This clearly written, class-tested manual has long given students hands-on experience covering all the essential topics in general chemistry. Stand alone experiments provide all the background introduction necessary to work with any general chemistry text. This revised edition offers new experiments and expanded information on applications to real world situations.

### **Calculations for Molecular Biology and Biotechnology**

Effective Learning in the Life Sciences is intended to help ensure that each student achieves his or her true potential by learning how to solve problems creatively in laboratory, field or other workplace setting. Each chapter describes state of the art approaches to learning and teaching and will include case studies, worked examples and a section that lists additional online and other resources. All of the chapters are written from the perspective both of students and academics and emphasize and embrace effective scientific method throughout. This title also draws on experience from a major project conducted by the Centre for Bioscience, with a wide range of collaborators, designed to identify and implement creative teaching in bioscience laboratories and field settings. With a strong emphasis on students thinking for themselves and actively learning about their chosen subject Effective Learning in the Life Sciences provides an invaluable guide to making the university experience as effective as possible.

### **Nelson Modular Science**

Containing the core content of the AQA Chemistry 2006 onwards specification, this revision guide reflects the 'How Science Works' element of the course.

### **Sif: Chemistry S5n Tb**

One of the most important parts of learning chemistry is simply knowing all of the equations and formulas that are used in it. It is important to know the exact formatting of these equations, and most classes will require a student to know them for exams. It is a good idea to learn these equations and formulas with the use of a study pamphlet. The pamphlet can condense all of the information so a student can memorize the equations and formulas while studying.

### **Chemistry Equations & Answers**

Updated and easy-to-use, Linne & Ringsrud's Clinical Laboratory Science: The Basics and Routine Techniques, 6th Edition delivers a fundamental overview of the laboratory skills and techniques essential for success in your classes and your career. Author Mary Louise Turgeon's simple, straightforward writing clarifies complex concepts, and a discipline-by-discipline approach helps you build the knowledge to confidently perform clinical laboratory tests and ensure accurate, effective results. Expert insight from respected educator and author Mary Louise Turgeon reflects the full spectrum of clinical laboratory

science. Engaging full-color design and illustrations familiarize you with what you'll see under the microscope. Streamlined approach makes must-know concepts and practices more accessible. Broad scope provides an ideal introduction to clinical laboratory science at various levels, including MLS/MLT and Medical Assisting. Hands-on procedures guide you through the exact steps you'll perform in the lab. Learning objectives help you identify key chapter content and study more effectively. Case studies challenge you to apply concepts to realistic scenarios. Review questions at the end of each chapter help you assess your understanding and identify areas requiring additional study. A companion Evolve website provides convenient online access to procedures, glossary, audio glossary and links to additional information. Updated instrumentation coverage familiarizes you with the latest technological advancements in clinical laboratory science. Perforated pages make it easy for you to take procedure instructions with you into the lab. Enhanced organization helps you study more efficiently and quickly locate the information you need. Convenient glossary provides fast, easy access to definitions of key terms.

### **Pharmaceutical and Clinical Calculations, 2nd Edition**

This book seeks to introduce the reader to current methodologies in analytical calibration and validation. This collection of contributed research articles and reviews addresses current developments in the

calibration of analytical methods and techniques and their subsequent validation. Section 1, "Introduction," contains the Introductory Chapter, a broad overview of analytical calibration and validation, and a brief synopsis of the following chapters. Section 2 "Calibration Approaches" presents five chapters covering calibration schemes for some modern analytical methods and techniques. The last chapter in this section provides a segue into Section 3, "Validation Approaches," which contains two chapters on validation procedures and parameters. This book is a valuable source of scientific information for anyone interested in analytical calibration and validation.

## **Practical Pharmaceutical Calculations**

### **Study Guide**

Focuses on the key chemical concepts which students of the biosciences need to understand, making the scope of the book directly relevant to the target audience.

### **Introductory Chemistry**

Aquacultural, oceanographic, and fisheries engineering, as well as other disciplines, require gas solubility data to compute the equilibrium concentration. These calculations, for example, can affect the output of aquacultural production or assist in environmental consulting. Until now, published solubility information has not been available in a

consistent and uniform manner in one location. This book presents solubility concentrations of major atmospheric gases (oxygen, nitrogen, argon, carbon dioxide), noble gases (helium, neon, krypton, xenon), and trace gases (hydrogen, methane, nitrous oxide) as a function of temperature, salinity, pressure, and gas composition in a variety of formats. Data, equations, and theory are explained so that the user is able to understand the calculations and problems. Furthermore, data and solubility information are presented in a range of units to make them accessible across disciplines. This book will help the reader to look at a problem from a quantitative viewpoint and better understand carbonate chemistry. Revised from the earlier edition to include more accurate carbon dioxide tables and separate sections on the solubility of noble gases, trace gases, and oxygen in brines to provide a single resource for gas solubility data. This book is essential for all students and practitioners working in aquatic fields. A single source for highly accurate and comprehensive tables for gas solubility in aquatic systems Information provided in tables, equations, and computer programmes Theory is presented to better understand the equations and calculations

### **Linne & Ringsrud's Clinical Laboratory Science - E-Book**

### **Effective Learning in the Life Sciences**

The AACN Procedure Manual for Critical Care, 6th

Edition presents procedures for the critical care environment in an illustrated, consistent, and step-by-step format. The Procedures and Patient Monitoring sections are presented in a tabular format that includes special considerations and rationales for each intervention. References have been meticulously reviewed to ensure that the most authoritative and timely standards of practice are used. Additionally, the references supporting care recommendations are identified according to the latest AACN Evidence Leveling System to ensure that you have a complete understanding of the strength of the evidence base. UNIQUE! AACN-sponsored content ensures the highest standards of practice Comprehensive, clear, easy-to-use format allows you to quickly find and review the exact content you need Rationales provide complete information on every procedure Identified AP procedures help you judge whether a procedure is in your scope of practice Patient safety highlighted with new icons for patient identification and time-out Joint Commission Universal Protocols CDC Standard Precautions for hand washing and applying protective clothing and equipment highlighted with new icons UNIQUE! Clarity of Evidence Leveling helps you quickly grasp the strength of the evidence supporting the care recommendations Reviewed and Updated References comply with the highest standards of critical care practice Alphabetical procedures index inside the front cover provides easy access Reader-friendly design changes make it easier to identify and utilize special features

**Nelson Modular Science**

Though it incorporates much new material, this new edition preserves the general character of the book in providing a collection of solutions of the equations of diffusion and describing how these solutions may be obtained.

### **Chemistry**

Provides an introduction to the principles and procedures of chemistry, including atomic structure, the elements, compounds, the three states of matter, chemical reactions, and thermodynamics.

### **Chemistry for the Biosciences**

To understand hydrochemistry and to analyze natural as well as man-made impacts on aquatic systems, hydrogeochemical models have been used since the 1960's and more frequently in recent times.

Numerical groundwater flow, transport, and geochemical models are important tools besides classical deterministic and analytical approaches. Solving complex linear or non-linear systems of equations, commonly with hundreds of unknown parameters, is a routine task for a PC. Modeling hydrogeochemical processes requires a detailed and accurate water analysis, as well as thermodynamic and kinetic data as input. Thermodynamic data, such as complex formation constants and solubility-products, are often provided as databases within the respective programs. However, the description of surface-controlled reactions (sorption, cation exchange, surface complexation) and kinetically

controlled reactions requires additional input data. Unlike groundwater flow and transport models, thermodynamic models, in principal, do not need any calibration. However, considering surface-controlled or kinetically controlled reaction models might be subject to calibration. Typical problems for the application of geochemical models are: • speciation • determination of saturation indices • adjustment of equilibria/disequilibria for minerals or gases • mixing of different waters • modeling the effects of temperature • stoichiometric reactions (e.g. titration) • reactions with solids, fluids, and gaseous phases (in open and closed systems) • sorption (cation exchange, surface complexation) • inverse modeling • kinetically controlled reactions • reactive transport Hydrogeochemical models depend on the quality of the chemical analysis, the boundary conditions presumed by the program, theoretical concepts (e.g.

## **Introductory Chemistry Online!**

## **Modern Analytical Chemistry**

This textbook focuses specifically on the combined topics of irrigation and drainage engineering. It emphasizes both basic concepts and practical applications of the latest technologies available. The design of irrigation, pumping, and drainage systems using Excel and Visual Basic for Applications programs are explained for both graduate and undergraduate students and practicing engineers. The book emphasizes environmental protection,

economics, and engineering design processes. It includes detailed chapters on irrigation economics, soils, reference evapotranspiration, crop evapotranspiration, pipe flow, pumps, open-channel flow, groundwater, center pivots, turf and landscape, drip, orchards, wheel lines, hand lines, surfaces, greenhouse hydroponics, soil water movement, drainage systems design, drainage and wetlands contaminant fate and transport. It contains summaries, homework problems, and color photos. The book draws from the fields of fluid mechanics, soil physics, hydrology, soil chemistry, economics, and plant sciences to present a broad interdisciplinary view of the fundamental concepts in irrigation and drainage systems design.

### **A Textbook of Nanoscience and Nanotechnology**

Calculations for Molecular Biology and Biotechnology: A Guide to Mathematics in the Laboratory, Second Edition, provides an introduction to the myriad of laboratory calculations used in molecular biology and biotechnology. The book begins by discussing the use of scientific notation and metric prefixes, which require the use of exponents and an understanding of significant digits. It explains the mathematics involved in making solutions; the characteristics of cell growth; the multiplicity of infection; and the quantification of nucleic acids. It includes chapters that deal with the mathematics involved in the use of radioisotopes in nucleic acid research; the synthesis of oligonucleotides; the polymerase chain reaction

(PCR) method; and the development of recombinant DNA technology. Protein quantification and the assessment of protein activity are also discussed, along with the centrifugation method and applications of PCR in forensics and paternity testing. Topics range from basic scientific notations to complex subjects like nucleic acid chemistry and recombinant DNA technology Each chapter includes a brief explanation of the concept and covers necessary definitions, theory and rationale for each type of calculation Recent applications of the procedures and computations in clinical, academic, industrial and basic research laboratories are cited throughout the text New to this Edition: Updated and increased coverage of real time PCR and the mathematics used to measure gene expression More sample problems in every chapter for readers to practice concepts

### **Certificate Chemistry Form 3**

Physiology is a comprehensive presentation of core physiologic concepts with a focus on mechanisms. Renowned physiology instructor Linda S. Costanzo covers important concepts in the field, both at the organ system and cellular levels. Easy to read and user-friendly, the revised fourth edition stresses essential and relevant content with absolute clarity and includes concise step-by-step explanations complemented by numerous tables and abundant illustrations. It provides information on the underlying principles of cellular physiology, the autonomic nervous system, and neurophysiology, as well as the cardiovascular, respiratory, renal, acid-base,

gastrointestinal, endocrine, and reproductive organ systems. This book is ideal as both a textbook and as a review guide for the boards. Provides step-by-step explanations and easy-to-follow diagrams clearly depicting physiologic principles. Integrates equations and sample problems throughout the text. Presents chapter summaries for quick overviews of important points. Contains boxed Clinical Physiology Cases to provide you with more clinical examples and a more thorough understanding of application. Provides questions at the end of each chapter for an extensive review of the material and to reinforce your understanding and retention. Offers a full-color design and all full-color illustrations throughout. Features increased coverage of pathophysiology in the neurophysiology, gastrointestinal, renal, acid-base, and endocrine chapters to emphasize this important component of the USMLE exam. Incorporates further practice in solving physiology equations through the inclusion of additional problem-solving questions throughout the text.

### **AACN Procedure Manual for Critical Care - E-Book**

Problems in Physical Chemistry presents problems relating to atoms, orbitals, valency, and the periodic table; to thermochemistry, heats of reaction, and bond energies; and to ionization energy, electron affinity, and electronegativity. The book also includes problems relating to kinetic theory and molecular weights; to equilibrium, dissociation and Le Chatelier's principle; and to ionic equilibria, pH,

indicators and solubility product. The text also covers problems relating to redox processes; to electrical properties of solutions; to partition coefficient; and to reaction rates. Students studying the chemistry syllabus will find the book useful.

### **Pharmaceutical Calculations**

### **Groundwater Geochemistry**

This series builds on the Nelson Science and Nelson Balanced Science series. It was developed for those studying for a Double or Triple Award at GCSE. It includes coverage of all the major GCSE science specifications, a range of case studies and other materials to further develop ideas and evidence in science and a range of questions including actual examination questions.

### **Level Course in Chemistry**

From liquids and solids to acids and bases - work chemistry equations and use formulas with ease Got a grasp on the chemistry terms and concepts you need to know, but get lost halfway through a problem or, worse yet, not know where to begin? Have no fear - this hands-on guide helps you solve many types of chemistry problems in a focused, step-by-step manner. With problem-solving shortcuts and lots of practice exercises, you'll build your chemistry skills and improve your performance both in and out of the science lab. You'll see how to work with numbers,

atoms, and elements; make and remake compounds; understand changes in terms of energy; make sense of organic chemistry; and more! 100s of Problems! Know where to begin and how to solve the most common chemistry problems Step-by-step answer sets clearly identify where you went wrong (or right) with a problem Understand the key exceptions to chemistry rules Use chemistry in practical applications with confidence

### **AS Chemistry for AQA**

#### **Chemistry**

Offers concise and practical guidance on the common types of calculation used in pharmacy and drug preparation. Selected worked examples and test questions are provided at the end of each chapter as well as a general test at the end of the book.

#### **Irrigation and Drainage Engineering**

This third edition of Key Science: Chemistry has been fully revised to meet the requirements of all 2001 GCSE specifications. It is aimed at middle-ability students, but contains enough material for high achievers. Topics are clearly differentiated between core material for GCSE science: Double-Award/Single-Award and extension material for GCSE science: chemistry.

#### **Gcse Aqa Chemistry**

The Nelson Modular Science series is made up of three books divided into single, double and triple award modules presented in an accessible format. Book 1 covers the six single award and one coursework modules; Book 2 contains six double award modules; and Book 3 covers the six triple award modules. Each module is covered in self-contained units. This teacher's file includes practical support sheets and addresses Sc1 investigations. Works sheets are provided to integrate the use of ICT throughout science. Additional GCSE-style questions and modular tests should enhance learning and recall of information.

### **The Mathematics of Diffusion**

Modern Analytical Chemistry is a one-semester introductory text that meets the needs of all instructors. With coverage in both traditional topics and modern-day topics, instructors will have the flexibility to customize their course into what they feel is necessary for their students to comprehend the concepts of analytical chemistry.

### **Pharmaceutical Calculations**

This chemistry text is written to match exactly the specification for teaching Advanced Chemistry from September 2000. There are two strands, AS and A2, with student books. The accompanying resource packs are also available on CD-ROM.

### **Physiology, E-Book**

The Nelson Modular Science series is made up of three books divided into Single, Double and Triple Award modules. Book 1 covers six Single Award modules and one coursework module, Book 2 contains six Double Award modules whilst Book 3 covers the six Triple Award modules. Each module is covered in self-contained units. The series matches the Edexcel Modular Science (B) specifications. It is fully covered with links throughout to supplementary reading materials and ICT activities on a dedicated website.

### **Chemistry in the Laboratory**

See how chemistry is relevant to your life Now in its fifth edition, Introductory Chemistry continues to foster deep engagement in the course by showing how chemistry manifests in your daily life. Author Nivaldo Tro draws upon his classroom experience as an award-winning instructor to extend chemistry from the laboratory to your world, with relevant applications and a captivating writing style. Closely integrated with the fifth edition of Introductory Chemistry, MasteringChemistry® gives you the tools you need to succeed in this course. This program provides you a better learning experience. It will help you to:

- Personalize learning with MasteringChemistry®: This data-validated online homework, tutorial, and assessment program helps you quickly master concepts, and enables instructors to provide timely intervention when necessary.
- Achieve deep conceptual understanding: Several new Conceptual Checkpoints and Self- Assessment

Quizzes help you better grasp key concepts. • Develop problem-solving skills: A step-by-step framework encourages you to think logically rather than simply memorize formulas. Additional worked examples, enhanced with audio and video, reinforce challenging problems. • Maintain interest in chemistry: The inclusion of concrete examples of key ideas throughout the program keeps you engaged in the material. Note: If you are purchasing the standalone text or electronic version, MasteringChemistry does not come automatically packaged with the text. To purchase MasteringChemistry please visit: [www.masteringchemistry.com](http://www.masteringchemistry.com) or you can purchase a package of the physical text + MasteringChemistry by searching for 9780321910073 / 0321910079. MasteringChemistry is not a self-paced technology and should only be purchased when required by an instructor.

### **The Complete Idiot's Guide to Chemistry**

Pharmaceutical and clinical calculations are critical to the delivery of safe, effective, and competent patient care and professional practice. Pharmaceutical and Clinical Calculations, Second Edition addresses this crucial component, while emphasizing contemporary pharmacy practices. Presenting the information in a well-organized and easy-to-understand manner, the authors explain the principles of clinical calculations involving dose and dosing regimens in patients with impaired organ functions, aminoglycoside therapy, pediatric and geriatric dosing, and

radiopharmaceuticals with appropriate examples. Each chapter begins with an introduction to the topic, followed by a comprehensive discussion. Key concepts are highlighted throughout the book for easy retrieval. The examples presented in the text reflect the practice environment in community, hospital, and nuclear pharmacy settings, and the clinical problems presented reflect a direct application of underlying theoretical principles and discussions. *Pharmaceutical and Clinical Calculations, Second Edition* is an essential tool for any practitioner who needs to reinforce their knowledge of the subject and is a valuable study guide for the Pharmacy Board examination.

### **GB/T 4615-2013: Translated English of Chinese Standard. (GBT 4615-2013, GB/T4615-2013, GBT4615-2013)**

Concepts, procedures and programs described in this book make it possible for readers to solve both simple and complex equilibria problems quickly and easily and to visualize results in both numerical and graphical forms. They allow the user to calculate concentrations of reactants and products for both simple and complicated situations. The user can spend less time doing calculations and more time thinking about what the results mean in terms of a larger problem in which she or he may be interested.

### **Chemical Equilibria**

*Pharmaceutical Calculations: A Conceptual Approach,*

is a book that combines conceptual and procedural understanding for students and will guide you to master prerequisite skills to carry out accurate compounding and dosage regimen calculations. It is a book that makes the connection between basic sciences and pharmacy. It describes the most important concepts in pharmaceutical sciences thoroughly, accurately and consistently through various commentaries and activities to make you a scientific thinker, and to help you succeed in college and licensure exams. Calculation of the error associated with a dose measurement can only be carried out after understanding the concept of accuracy versus precision in a measurement. Similarly, full appreciation of drug absorption and distribution to tissues can only come about after understanding the process of transmembrane passive diffusion. Early understanding of these concepts will allow reinforcement and deeper comprehension of other related concepts taught in other courses. More weight is placed on the qualitative understanding of fundamental concepts, like tonicity vs osmotic pressure, diffusion vs osmosis, crystalloids vs colloids, osmotic diuretics vs plasma expanders, rate of change vs rate constants, drug accumulation vs drug fluctuation, loading dose vs maintenance dose, body surface area (BSA) vs body weight (BW) as methods to adjust dosages, and much more, before considering other quantitative problems. In one more significant innovation, the origin and physical significance of all final forms of critical equations is always described in detail, thus, allowing recognition of the real application and limitations of an equation. Specific strategies are explained step-by-step in more

than 100 practice examples taken from the fields of compounding pharmacy, pharmaceuticals, pharmacokinetics, pharmacology and medicine.

### **Proceedings of the Royal Society. Section A, Mathematical and Physical Science**

This comprehensive guide gives you lesson plans, activities, and tests for two sequential, semester-long chemistry courses. It is designed to work with our student book Contemporary Chemistry. Each lesson plan features: a DO NOW section to engage students as soon as they get to class instructional objectives an aimfor that class period a motivational application questions or demonstrations to help students draw valid conclusions homework assignments You also get term calendars, weekly tests, and complete answer keys.

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