

Equation Sheet for A-Level Chemistry

These are the equations you need to memorise for your Chemistry A-Level



Amount of Substance

Moles

$$n = \frac{m}{M_r}$$

Concentration

$$c = \frac{n}{V}$$

Molar gas volume

$$V = n \times 24$$

Number of particles

$$= n \times N_A$$

Ideal gas Equation

$$pV = nRT$$

Atom economy

$$= \frac{\text{M}_r \text{ of desired product}}{\text{Sum of M}_r \text{ of all reactants}} \times 100$$

% Yield

$$= \frac{\text{Actual yield}}{\text{Theoretical yield}} \times 100$$

Energetics

Enthalpy change

$$Q = mc\Delta T$$

Average bond enthalpy

$$\Delta H = \sum (\text{bond enthalpies in reactants}) - \sum (\text{bond enthalpies in products})$$

Electrode Potentials

EMF

$$E^{\ominus} = E^{\ominus} \text{right hand side} - E^{\ominus} \text{left hand side}$$

Thermodynamics

Gibbs Free Energy Equation

$$\Delta G = \Delta H - T\Delta S$$

Transition Metals

Coloured complex ions - difference in energy

$$\Delta E = h\nu = \frac{hc}{\lambda}$$

Chemical Equilibria

Equilibrium constant wrt concentration

$$K_c = \frac{[D]^d [E]^e}{[A]^a [B]^b}$$

Equilibrium constant wrt pressure

$$K_p = \frac{(D)^d (E)^e}{(A)^a (B)^b}$$

Rate Equations

$$\text{Rate} = k[A]^m[B]^n$$

Arrhenius is provided but you should be able to use:

$$k = Ae^{-E_a/RT}$$

$$\ln k = -E_a/RT + \ln A$$

Acids and Bases

$$pH = -\log_{10}[H^+]$$

$$K_w = [H^+][OH^-]$$

$$pK_a = -\log_{10}K_a$$

$$K_a = \frac{[H^+][A^-]}{[HA]}$$

Calculations For A Level Chemistry

Warren J. Hehre, W. Wayne Huang



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Calculations for A-level Chemistry E. N. Ramsden, 2001 Aiming to match the various specifications this book gives explanations worked examples and practice in chemistry calculations It includes a comprehensive mathematics foundation section Work on formulae and equations the mole volumetric analysis and other key areas are included It is useful as a course book as well as for exam practice

Calculations for O-level Chemistry E. N. Ramsden, 1981-01-01

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Practice in O-Level Chemistry Calculations J. H. Allen, 1983-01-01 **Molecular Simulation Methods for Predicting Polymer Properties** Vassilios Galiatsatos, 2005-02-03 Among the thousands of synthesized polymers new polymeric substances and materials with new often unusual properties often arise Consequently this presents a problem in determining the physical properties of polymers and thus makes it difficult to ascertain how to synthesize polymers with desired properties This book discusses what molecular modelling can do to predict the properties of realistic polymer systems Organized by property each chapter will address the methods one may use to study the particular system Focuses on polymer properties rather than methods making it more accessible to the average scientist engineer All important polymers will be covered such as amorphous polymers semicrystalline polymers elastomers emulsions polymer interfaces and surfaces Chapters contributed by experts in the field Discusses current commercial software used in molecular simulation

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Theory and Applications of Computational Chemistry The First Forty Years is a collection of articles on the emergence of computational chemistry It shows the enormous breadth of theoretical and computational chemistry today and establishes how theory and computation have become increasingly linked as methodologies and technologies have advanced Written by the pioneers in the field the book presents historical perspectives and insights into the subject and addresses new and current methods as well as problems and applications in theoretical and computational chemistry Easy to read and packed with personal insights technical and classical information this book provides the perfect introduction for graduate students beginning research in this area It also provides very readable and useful reviews for theoretical chemists Written by well known leading experts Combines history personal accounts and theory to explain much of the field of theoretical and computational chemistry Is the perfect introduction to the field

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Fundamentals of Biochemical Calculations Krish Moorthy, 2007-11-30 Fundamentals of Biochemical Calculations Second Edition demystifies the fundamental calculations used in modern biochemistry cell biology and allied biomedical sciences The book encourages both undergraduates and scientists to develop an understanding of the processes involved in performing biochemical calculations rather than rely on memory

Computational Chemistry Errol G. Lewars, 2024-06-04 This is the fourth edition of the successful textbook on computational chemistry which continues to provide a comprehensive introduction to the theory and practice of computational chemistry Notable updates include a review of references up to mid 2023 encompassing recent developments in scientific journals books and software The evolving prominence of density functional theory DFT is emphasized and attention is given to the increasing application of artificial intelligence in computational chemistry The book maintains key features from the previous edition delving into the mathematical intricacies of ab initio and density functional methods at an introductory level Clear explanations of matrix methods are provided offering a direct approach to obtaining energy levels and molecular orbitals Additionally each chapter includes sets of Easier and Harder drill questions with suggested answers at the end of the book enhancing the learning

experience The book is intended for upper year undergraduate and graduate students studying computational and theoretical chemistry and for self study by researchers in universities and industry to whom computational chemistry may be useful

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Quantum Systems in Chemistry and Physics Alfonso Hernández-Laguna, J. Maruani, R.

McWeeny, Stephen Wilson, 2006-04-11 These two volumes collect forty four selected papers from the scientific contributions presented at the Third European Workshop on Quantum Systems in Chemistry and Physics held in Granada, Spain, April 19-22, 1998. Ninety nine scientists from Bulgaria, Columbia, Cuba, Denmark, Finland, France, Germany, Hungary, Israel, Italy, Mexico, Netherlands, Norway, Poland, Russia, Slovakia, Spain, Sweden, United Kingdom, Uruguay, and Venezuela attended the workshop, discussing the state of the art, new trends, and future evolution of the methods and applications. The workshop took place at the Los Alixares Hotel, where 45 lectures were given by prominent members of the scientific community; in addition, 49 posters were presented in two very animated sessions. The success of this workshop is due without doubt to the excellent tradition initiated at the previous workshops organised by Prof. R. McWeeny in San Miniato, Pisa, Italy, 1996, and by Prof. S. Wilson in Oxford, United Kingdom, 1997. These workshops create occasions for meetings and discussions on the current state of the art, emerging methods and applications, and new trends in this area of science. The three meetings were sponsored and partially supported by the European Union (EU) in the frame of the Cooperation in Science and Technology (COST) chemistry actions.

Quantum Chemistry Tamás Veszprémi, Miklós Fehér, 2012-12-06 Quantum Chemistry, the branch of

Computational Chemistry that applies the laws of Quantum Mechanics to chemical systems is one of the most dynamic fields of contemporary chemistry providing a solid foundation for all of chemistry and serving as the basis for practical computational methodologies with applications in virtually all branches of chemistry The increased sophistication accuracy and scope of the theory of chemistry are due to a large extent to the spectacular development of quantum chemistry and in this book the authors have made a remarkable effort to provide a modern account of the field From the Foreword by Paul Mezey University of Saskatchewan Quantum Chemistry Fundamentals to Applications develops quantum chemistry all the way from the fundamentals found in Part I through the applications that make up Part II The applications include molecular structure spectroscopy thermodynamics chemical reactions solvent effects and excited state chemistry The importance of this field is underscored by the fact that the 1998 Nobel Prize in Chemistry was awarded for the development of Quantum Chemistry

Annual Reports in Computational Chemistry ,2016-09-26 Annual Reports in Computational Chemistry provides timely and critical reviews of important topics in computational chemistry as applied to all chemical disciplines Topics covered include quantum chemistry molecular mechanics force fields chemical education and applications in academic and industrial settings Focusing on the most recent literature and advances in the field each article covers a specific topic of importance to computational chemists Includes timely discussions on quantum chemistry and molecular mechanics Covers force fields chemical education and more Presents the latest in chemical education and applications in both academic and industrial settings

Combustion Generated Fine Carbonaceous Particles Andrea D'Anna,2014-08-13 Soot is of importance for its contribution to atmospheric particles with their adverse health impacts and for its contributions to heat transfer in furnaces and combustors to luminosity from candles and to smoke that hinders escape from buildings during fires and that impacts global warming or cooling The different chapters of the book address comprehensively the different aspects from fundamental approaches to applications in technical combustion devices

Chemistry Aleyamma Ninan,2005 Explaining how to do the calculations in chemistry this book is designed for undergraduate and IB A level chemists

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Table of Contents Calculations For A Level Chemistry

1. Understanding the eBook Calculations For A Level Chemistry
 - The Rise of Digital Reading Calculations For A Level Chemistry
 - Advantages of eBooks Over Traditional Books
2. Identifying Calculations For A Level Chemistry
 - 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 Calculations For A Level Chemistry
 - User-Friendly Interface
4. Exploring eBook Recommendations from Calculations For A Level Chemistry
 - Personalized Recommendations
 - Calculations For A Level Chemistry User Reviews and Ratings

- Calculations For A Level Chemistry and Bestseller Lists
- 5. Accessing Calculations For A Level Chemistry Free and Paid eBooks
 - Calculations For A Level Chemistry Public Domain eBooks
 - Calculations For A Level Chemistry eBook Subscription Services
 - Calculations For A Level Chemistry Budget-Friendly Options
- 6. Navigating Calculations For A Level Chemistry eBook Formats
 - ePub, PDF, MOBI, and More
 - Calculations For A Level Chemistry Compatibility with Devices
 - Calculations For A Level Chemistry Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Calculations For A Level Chemistry
 - Highlighting and Note-Taking Calculations For A Level Chemistry
 - Interactive Elements Calculations For A Level Chemistry
- 8. Staying Engaged with Calculations For A Level Chemistry
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Calculations For A Level Chemistry
- 9. Balancing eBooks and Physical Books Calculations For A Level Chemistry
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Calculations For A Level Chemistry
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Calculations For A Level Chemistry
 - Setting Reading Goals Calculations For A Level Chemistry
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Calculations For A Level Chemistry
 - Fact-Checking eBook Content of Calculations For A Level Chemistry
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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