

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

E. N. Ramsden



Calculations For A Level Chemistry:

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 in AS/A Level Chemistry Jim Clark, 2000 **Calculations for O-level Chemistry** E. N. Ramsden, 1981-01-01 **Theory and Applications of Computational Chemistry** Clifford Dykstra, Gernot Frenking, Kwang Kim, Gustavo Scuseria, 2011-10-13 Computational chemistry is a means of applying theoretical ideas using computers and a set of techniques for investigating chemical problems within which common questions vary from molecular geometry to the physical properties of substances 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 *Adsorbents* Ralph T. Yang, 2003-07-18 Adsorption promises to play an integral role in several future energy and environmental technologies including hydrogen storage CO removal for fuel cell technology desulfurization of transportation fuels and technologies for meeting higher standards on air and water pollutants Ralph Yang's *Adsorbents* provides a single and comprehensive source of knowledge for all commercial and new sorbent materials presenting the fundamental principles for their syntheses their adsorption properties and their present and potential applications for separation and purification Chapter topics in this authoritative forward looking volume include Formulas for calculating the basic forces or potentials for adsorption Calculation of pore size distribution from a single adsorption isotherm Rules for sorbent selection Fundamental principles for syntheses preparation adsorption properties and applications of commercially available sorbents Mesoporous molecular sieves and zeolites complexation sorbents and their applications Carbon nanotubes pillared clays and polymeric resins Yang covers the explosion in the development of new nanoporous materials thoroughly as the adsorption properties of some of these materials have remained largely unexplored The whole of this book benefits from the new adsorbent designs made possible by the increase in desktop computing and molecular simulation making *Adsorbents* useful to both practicing laboratories and graduate programs Ralph Yang's comprehensive study contributes significantly to

the resolution of separation and purification problems by adsorption technologies Practice in O-Level Chemistry Calculations J. H. Allen,1983-01-01 NASA Reference Publication ,1985 Elements of Molecular and Biomolecular Electrochemistry Jean-Michel Savéant,Cyrille Costentin,2019-06-12 Dieses Fachbuch geschrieben von zwei weltweit führenden Koryph en auf dem Gebiet der Elektrochemie beschreibt detailliert die zentralen elektrochemischen Reaktionen die als Grundlage f r die heutige Erforschung alternativer Energiel sungen dienen Bietet eine zug ngliche und gut lesbare Zusammenfassung zu elektrochemischen Verfahren und der Anwendung elektrochemischer Konzepte bei funktionalen Systemen auf Molekularebene Enth lt ein neues Kapitel zu dem protonengekoppelten Elektronentransfer ein vollst ndig bearbeitetes Kapitel zur molekularen Katalyse bei elektrochemischen Reaktionen sowie durchg ngig neue Abschnitte Stellt die Verbindung zwischen der Elektrochemie der Molekular und Biomolekularchemie her und st rkt deren Zusammenspiel indem eine Vielzahl von Funktionen pr sentiert werden die sich mit Multi Komponenten Systemen und Paradigmen aus beiden Bereichen der Chemie erreichen lassen **Chemistry with Computation** Warren J. Hehre,W. Wayne Huang,1995 **The Cumulative Book Index** ,1989 A world list of books in the English language Elementary Theory and Calculation of Iron Bridges and Roofs August Ritter,1879 Chemistry Aleyamma Ninan,2005 Explaining how to do the calculations in chemistry this book is designed for undergraduate and IB A level chemists **Developing Models in Science Education** J.K. Gilbert,C. Boulter,2012-12-06 Models and modelling play a central role in the nature of science in its conduct in the accreditation and dissemination of its outcomes as well as forming a bridge to technology They therefore have an important place in both the formal and informal science education provision made for people of all ages This book is a product of five years collaborative work by eighteen researchers from four countries It addresses four key issues the roles of models in science and their implications for science education the place of models in curricula for major science subjects the ways that models can be presented to are learned about and can be produced by individuals the implications of all these for research and for science teacher education The work draws on insights from the history and philosophy of science cognitive psychology sociology linguistics and classroom research to establish what may be done and what is done The book will be of interest to researchers in science education and to those taking courses of advanced study throughout the world Australian Journal of Chemistry ,1998 The Journal of Physical Chemistry ,1927 **Comprehensive Coordination Chemistry: Late transition elements** Geoffrey Wilkinson,Robert D. Gillard,Jon A. McCleverty,1987 **Bulletin of the Korean Chemical Society** ,2004 General Catalog Colorado State University,1971 **Australian National Bibliography** ,1975 Canadian Journal of Chemistry ,1996

This book delves into Calculations For A Level Chemistry. Calculations For A Level Chemistry is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Calculations For A Level Chemistry, encompassing both the fundamentals and more intricate discussions.

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 - Chapter 2: Essential Elements of Calculations For A Level Chemistry
 - Chapter 3: Calculations For A Level Chemistry in Everyday Life
 - Chapter 4: Calculations For A Level Chemistry in Specific Contexts
 - Chapter 5: Conclusion
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