

# 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

**Clifford Dykstra, Gernot  
Frenking, Kwang Kim, Gustavo Scuseria**

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**Practice in O-Level Chemistry Calculations** J. H. Allen, 1983-01-01 *Handbook of Computational Chemistry* Jerzy Leszczynski, 2012-01-14 This handbook is a guide to current methods of computational chemistry explaining their limitations and advantages and providing examples of their applications The first part outlines methods the balance of volumes present

numerous important applications

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**The Chemistry of Peroxides, Parts 1 and 2, 2 Volume Set**, 2007-02-06 The Chemistry of Peroxides is a new volume in the Chemistry of Functional Groups series This series covers all aspects of organic chemistry with each volume containing chapters on General and theoretical aspects Computational approaches Thermodynamics and kinetics NMR and ESR Mass Spectrometry Spectroscopies Analytical aspects Reaction mechanisms Syntheses Biological effects Environmental effects Industrial applications Edited by Zvi Rappoport this series provides outstanding reviews on all aspects of functional groups in analytical physical synthetic and applied chemistry

**A-level Chemistry's Best Kept Secrets!: What Top Students Know That You Don't** David Kien Wei Tan, Leonard Joachim Pereira, 2018-04-24 This book will help the reader make connections between the different branches of chemistry Along with the theory there are examples of recent technology applications used to help reinforce the theory being presented Rather than only present equations and theory the authors put a lot of effort into ensuring the reader will gain a better understanding of the concepts being presented through the use of examples applications illustrations and experiments There are also general trends rules of thumb common mistakes and practical explanations for each topic If you know someone studying chemistry or you just want to brush up on basic chemistry then this book is an excellent way to quickly understand many fundamental concepts in three broad areas of chemistry IEEE Electrical Insulation Magazine A Level Chemistry's Best Kept Secrets aims to inter link and integrate different concepts and topics and it is written with the latest syllabus in mind With effect from 2017 there would be a change in the A level syllabus and the ability to cross link topics is integral to acing chemistry Many guidebooks are of the expository and non refutable type in which facts are presented rather than explained In this book novel and more efficient ways of looking at problems in chemistry are proposed to ensure good understanding of the subject

Cambridge International AS and A Level Chemistry

Revision Guide Judith Potter, Peter Cann, 2015-10-29 A revision guide tailored to the AS and A Level Chemistry syllabus 9701 for first examination in 2016 This Revision Guide offers support for students as they prepare for their AS and A Level Chemistry 9701 exams Containing up to date material that matches the syllabus for examination from 2016 and packed full of guidance such as Worked Examples Tips and Progress Check questions throughout to help students to hone their revision and exam technique and avoid common mistakes These features have been specifically designed to help students apply their knowledge in exams Written in a clear and straightforward tone this Revision Guide is perfect for international learners

*Modern Methods for Theoretical Physical Chemistry of Biopolymers* Evgeni Starikov, James P. Lewis, Shigenori Tanaka, 2011-08-11 Modern Methods for Theoretical Physical Chemistry of Biopolymers provides an interesting selection of contributions from an international team of researchers in theoretical chemistry This book is extremely useful for tackling the complicated scientific problems connected with biopolymers physics and chemistry The applications of both the classical molecular mechanical and molecular dynamical methods and the quantum chemical methods needed for bridging the gap to structural and dynamical properties dependent on electron dynamics are explained Also included are ways to deal with complex problems when all three approaches need to be considered at the same time The book gives a rich spectrum of applications from theoretical considerations of how ATP is produced and used as energy currency in the living cell to the effects of subtle solvent influence on properties of biopolymers and how structural changes in DNA during single molecule manipulation may be interpreted Presents modern successes and trends in theoretical physical chemistry chemical physics of biopolymers Topics covered are of relevant importance to rapidly developing areas in science such as nanotechnology and molecular medicine Quality selection of contributions from renowned scientists in the field

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