

AP[®] CHEMISTRY EQUATIONS AND CONSTANTS

Throughout the exam the following symbols have the definitions specified unless otherwise noted.

L, mL = liter(s), milliliter(s)
g = gram(s)
nm = nanometer(s)
atm = atmosphere(s)

mm Hg = millimeters of mercury
J, kJ = joule(s), kilojoule(s)
V = volt(s)
mol = mole(s)

ATOMIC STRUCTURE

$$E = h\nu$$

$$c = \lambda\nu$$

E = energy
 ν = frequency
 λ = wavelength

Planck's constant, $h = 6.626 \times 10^{-34} \text{ J s}$

Speed of light, $c = 2.998 \times 10^8 \text{ m s}^{-1}$

Avogadro's number = $6.022 \times 10^{23} \text{ mol}^{-1}$

Electron charge, $e = -1.602 \times 10^{-19} \text{ coulomb}$

EQUILIBRIUM

$$K_c = \frac{[C]^c[D]^d}{[A]^a[B]^b}, \text{ where } aA + bB \rightleftharpoons cC + dD$$

$$K_p = \frac{(P_C)^c(P_D)^d}{(P_A)^a(P_B)^b}$$

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

$$K_b = \frac{[OH^-][HB^+]}{[B]}$$

$$K_w = [H^+][OH^-] = 1.0 \times 10^{-14} \text{ at } 25^\circ\text{C}$$

$$= K_a \times K_b$$

$$\text{pH} = -\log[H^+], \text{ pOH} = -\log[OH^-]$$

$$14 = \text{pH} + \text{pOH}$$

$$\text{pH} = \text{p}K_a + \log \frac{[A^-]}{[HA]}$$

$$\text{p}K_a = -\log K_a, \text{ p}K_b = -\log K_b$$

Equilibrium Constants

K_c (molar concentrations)

K_p (gas pressures)

K_a (weak acid)

K_b (weak base)

K_w (water)

KINETICS

$$[A]_t - [A]_0 = -kt$$

$$\ln[A]_t - \ln[A]_0 = -kt$$

$$\frac{1}{[A]_t} - \frac{1}{[A]_0} = kt$$

$$t_{1/2} = \frac{0.693}{k}$$

k = rate constant

t = time

$t_{1/2}$ = half-life

Quality Core Chemistry Formula Sheet

Sheridan Muspratt



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Beverage Quality and Safety Tammy Foster, Purnendu C. Vasavada, 2003-06-26 Based on an IFT short course Beverage Quality and Safety offers information on the latest beverage industry trends related to products processing and packaging technologies including new generation nutraceutical beverages It also covers important regulatory issues including federal regulations on HACCP Among the topical issues it addresses

Water Quality Instructional Resources Information System (IRIS), 1979

Chemical Product Design: Towards a Perspective through Case Studies Ka M. Ng, Rafiqul Gani, Kim Dam-Johansen, 2006-10-24 Chemical Product Design Towards a Perspective through Case Studies provides a framework for chemical product design problems which are clearly defined together with different solution approaches This book covers the latest methods and tools currently available in the field and discusses future challenges that the chemical industry is faced with It focuses on important issues of chemical product design and provides a good overview on industrial chemical product design problems through case studies supplied by leading experts The editors of Chemical Product Design teach chemical product design at graduate level courses and also serve as consultants for various chemical companies They have also developed experimental techniques for chemical product design as well as computer aided design methods and tools Highlights important issues of chemical product design through case studies Case studies supplied by leading experts in chemical product design Provides a complete framework for chemical product design

Basic Environmental Technology Jerry A. Nathanson, 1986 A basic introduction to environmental technology with an emphasis on hydrology hydraulics water management and water quality Also discussed is solid and hazardous waste and air and noise pollution Fundamental scientific concepts are introduced as needed the text does not assume extensive knowledge of chemistry or biology but is designed to teach the basic science with an emphasis on applications

List of Bureau of Mines Publications and Articles ... with Subject and Author Index United States. Bureau of Mines, 1990

Chemical Engineering, 2000

Handbook of Industrial Chemistry and Biotechnology James A. Kent, 2013-01-13 Substantially revising and updating the classic reference in the field this handbook offers a valuable overview and myriad details on current chemical processes products and practices No other source offers as much data on the chemistry engineering economics and infrastructure of the industry The Handbook serves a spectrum of individuals from those who are directly involved in the chemical industry to others in related industries and activities It provides not only the underlying science and technology for important industry sectors but also broad coverage of critical supporting topics Industrial processes and products can be much enhanced through observing the tenets and applying the methodologies found in chapters on Green Engineering and Chemistry specifically biomass conversion Practical Catalysis and Environmental Measurements as well as expanded treatment of Safety chemistry plant security and Emergency Preparedness Understanding these factors allows them to be part of the total process and helps achieve optimum results in for example process development review and

modification Important topics in the energy field namely nuclear coal natural gas and petroleum are covered in individual chapters Other new chapters include energy conversion energy storage emerging nanoscience and technology Updated sections include more material on biomass conversion as well as three chapters covering biotechnology topics namely Industrial Biotechnology Industrial Enzymes and Industrial Production of Therapeutic Proteins **List of Bureau of Mines Publications and Articles ... with Subject and Author Index** United States. Bureau of Mines. Office of Public Information,1985 **List of Bureau of Mines Publications and Articles ... with Subject and Author Index** United States. Bureau of Mines. Branch of Editorial Services,1985 **Ground-water-quality Assessment of the Central Oklahoma Aquifer, Oklahoma** David L. Parkhurst,Scott C. Christenson,George N. Breit,1993 **Advances in Chemical Engineering** ,1983-12-01 Advances in Chemical Engineering **MotorBoating** ,1962-01 **Publications** United States. National Bureau of Standards,1981 *Decontamination and Device Processing in Healthcare* Gerald E. McDonnell,Georgia Alevizopoulou,2025-01-08 Prevent infections within healthcare spaces with safe and effective device decontamination and processing Prevention is the first line of defense against infection particularly in a world where microbial resistance to anti infectives like antibiotics is a growing threat Few aspects of managing a healthcare facility are more immediately important to patient care than the safe use of equipment and devices Although some devices are designed for single use many more are designed to be reused and there have been increasing reports of infections and other adverse patient reactions due to these devices in particular when regarding surgical and endoscopic procedures The decontamination or processing of various surfaces spaces and devices associated with patient care is a life saving discipline demanding dedicated resources and education Decontamination and Device Processing in Healthcare Second Edition meets this demand as a comprehensive training and reference manual for the decontamination and processing of equipment and devices used in patient care environments This book is ideal for medical staff involved in the management of devices within healthcare facilities including those purchasing using and processing devices on patients and those responsible for their safety Now fully updated to reflect the latest international regulations standards and best practices this text is an invaluable tool for meeting the challenges of the modern medical facility Readers of the second edition of Decontamination and Device Processing in Healthcare will also find within the text Up to date information based off the current guidelines standards and regulations of Regulatory organizations include the US FDA EU MDR NMPA and other similar international organizations Standard organizations including ISO CEN AAMI BSI DIN and international professional organizations in device processing WFHSS HPSA CAMDR etc nursing AORN EORNA ESGENA infection prevention WHO CDC ECDC and more Detailed discussion of topics including surgical suite management infection prevention and control essentials of anatomy and microbiology safety endoscopy and outpatient areas quality management and many more Description of the steps in device processing ranging from equipment to surgical devices including cleaning disinfection and sterilization Information written to be of value to healthcare educators

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