

Chemistry 105 Equation Sheet

Constants

$$\begin{aligned}a_0 &= 0.5291772059 \text{ \AA} \\c &= 2.99792458 \times 10^8 \text{ m/s} \\e &= 1.6021765 \times 10^{-19} \text{ C} \\\epsilon_0 &= 8.8541877 \times 10^{-12} \text{ F/m} \\h &= 6.626 \times 10^{-34} \text{ J}\cdot\text{s} \\k_B &= 1.38065 \times 10^{-23} \text{ J/K} \\k_e &= 8.987551 \times 10^9 \frac{\text{N}\cdot\text{m}^2}{\text{C}^2} \\m_e &= 9.109383 \times 10^{-31} \text{ kg} \\m_a &= 1.6749273 \times 10^{-27} \text{ kg} \\m_p &= 1.6726217 \times 10^{-27} \text{ kg} \\N_A &= 6.022142 \times 10^{23} \text{ mol}^{-1} \\R &= 8.31447 \frac{\text{J}}{\text{mol}\cdot\text{K}} \\&= 0.0820575 \frac{\text{L}\cdot\text{atm}}{\text{mol}\cdot\text{K}} \\&= 1.987207 \frac{\text{cal}}{\text{mol}\cdot\text{K}} \\R_H &= 1.0974 \times 10^7 \text{ m}^{-1}\end{aligned}$$

Conversions (* = exact)

Length

$$\begin{aligned}1 \text{ in} &= 2.54 \text{ cm}^* \\1 \text{ ft} &= 12 \text{ inches}^* \\1 \text{ yd} &= 3 \text{ ft}^* \\1 \text{ m} &= 39.37 \text{ inches}^* \\1 \text{ mile} &= 5280 \text{ feet}^* \\1 \text{ mile} &= 1.609 \text{ km}\end{aligned}$$

Mass

$$\begin{aligned}1 \text{ lb} &= 453.59237 \text{ g} \\&= 16 \text{ oz. avdp.}^* \\1 \text{ US lb} &= 12 \text{ troy ounces}^* \\1 \text{ ton} &= 2000 \text{ lb}^* \\1 \text{ amu} &= 1.660538 \times 10^{-24} \text{ g}\end{aligned}$$

Volume

$$\begin{aligned}1 \text{ US gal} &= 3.7854 \text{ L} = 4 \text{ US qt}^* \\1 \text{ US qt} &= 32 \text{ US fl. ozs.}^* \\1 \text{ US fluid oz.} &= 29.5735 \text{ mL} \\1 \text{ cm}^3 &= 0.001 \text{ L}^* \\1 \text{ in}^3 &= 16.4 \text{ cm}^3\end{aligned}$$

Pressure

$$\begin{aligned}1 \text{ atm} &= 760 \text{ torr}^* \\&= 101325 \text{ Pa}^* \\&= 406.783 \text{ in H}_2\text{O} \\&= 14.6959 \text{ lb/in}^2 \text{ (psi)} \\1 \text{ torr} &= 1 \text{ mm Hg (at } 0^\circ\text{C)}^* \\1 \text{ Pa} &= 1 \text{ kg}\cdot\text{m}^{-1}\cdot\text{s}^{-2} \\1 \text{ bar} &= 100,000 \text{ Pa}^*\end{aligned}$$

Force

$$1 \text{ N} = 1 \text{ kg}\cdot\text{m}\cdot\text{s}^{-2}$$

Power

$$1 \text{ Watt} = 1 \text{ J/s}$$

Energy

$$\begin{aligned}1 \text{ J} &= 1 \text{ kg}\cdot\text{m}^2/\text{s}^2 = 0.2390 \text{ cal} \\1 \text{ J} &= 1 \text{ V}\cdot\text{C} = 0.009869 \text{ L}\cdot\text{atm} \\1 \text{ eV} &= 1.602 \times 10^{-19} \text{ J} \\1 \text{ L}\cdot\text{atm} &= 101.3 \text{ J}\end{aligned}$$

Formulas

$$\begin{aligned}\rho &= m/V \\T_F &= \frac{9}{5}T_C + 32^\circ\text{F} \\T_K &= \frac{1}{1}T_C + 273.15 \text{ K} \\c &= \lambda\nu \\E &= h\nu \\\lambda &= \frac{h}{m\nu} \\E_{\text{kinetic}} &= \frac{1}{2}m\nu^2 \\E &= mc^2 \\\Phi &= h\nu - KE_{\text{electron}} \\E_n &= -Z^2 \frac{R_H h c}{n^2}\end{aligned}$$

$$\Delta x \Delta(m\nu) \geq \frac{h}{4\pi}$$

$$\frac{1}{\lambda} = R_H \left(\frac{1}{n_1^2} - \frac{1}{n_2^2} \right)$$

$$V(r) = \frac{q_1 q_2}{4\pi\epsilon_0 r}$$

$$F(r) = k_e \frac{Q_1 Q_2}{r^2}$$

$$\mu = Qr$$

$$\Delta E = q + w$$

$$\Delta E_{\text{univ}} = 0$$

$$\Delta S_{\text{univ}} \geq 0$$

$$S = k_B \ln W$$

$$q = m\Delta T$$

$$w = -P_{\text{ext}} \Delta V$$

$$\Delta H = \Delta E + P\Delta V$$

$$\Delta S = \frac{q_{\text{rev}}}{T}$$

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

$$\Delta G = \Delta G^\circ + RT \ln Q$$

$$\Delta H_{\text{rxn}}^\circ = \sum nH_{f,\text{prod}}^\circ - \sum nH_{f,\text{react}}^\circ$$

$$\Delta H_{\text{rxn}}^\circ \approx \sum nD_{\text{broken}} - \sum nD_{\text{formed}}$$

$$PV = nRT$$

$$P_{\text{tot}} = P_1 + P_2 + P_3 + \dots$$

$$\frac{\text{Rate}_A}{\text{Rate}_B} = \frac{\text{Time}_B}{\text{Time}_A} = \sqrt{\frac{M_B}{M_A}}$$

$$KE_{\text{ave}} = \frac{3}{2}RT$$

$$u_{\text{rms}} = \sqrt{v^2} = \sqrt{\frac{3RT}{M}}$$

$$\text{pX} = -\log X$$

$$K_w = [\text{H}_2\text{O}^+][\text{OH}^-]$$

* = exact ν = frequency v = velocity

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Chemical Engineering Formula Sheet

Various



Chemical Engineering Formula Sheet

Formulas, Facts, and Constants H. J. Fischbeck, K. H. Fischbeck, 2012-12-06 The material presented in this book has been compiled for the convenience of the reader The aim of the book is to provide a handy source of formulas conversion factors and constants for everyday use The formulas and tables are amended by examples in all of those cases where their use is not self explanatory The material has been selected to be helpful whenever it is inconvenient or not possible to consult tables available at the library Section 1 provides the fundamental tools of mathematics needed in all areas of the physical sciences Section 2 summarizes the SI system lists conversion factors and provides precise values of fundamental constants Sections 3 and 4 review the basic terms of spectroscopy atomic structure and wave mechanics These sections serve as a guide to the interpretation of modern literature Section 5 is a resource for work in the laboratory Data and formulas are given to be of assistance in the use of frequently encountered equipment such as vacuum systems and electronic devices Material constants and other data are listed for information and as an aid for estimates or problem solving The assistance of the Springer Verlag during the various stages of the development of this book is gratefully acknowledged The authors like to thank Dr F L Boschke for his many helpful suggestions Helmut J Fischbeck Kurt H Fischbeck Contents Basic mathematical facts and figures *Handbook of Chemical Engineering Calculations* Nicholas P. Chopey, 1994 A compilation of the calculation procedures needed every day on the job by chemical engineers Tables of Contents Physical and Chemical Properties Stoichiometry Phase Equilibrium Chemical Reaction Equilibrium Reaction Kinetics and Reactor Design Flow of Fluids and Solids Heat Transfer Distillation Extraction and Leaching Crystallization Filtration Liquid Agitation Size Reduction Drying Evaporation Environmental Engineering in the Plant Illustrations Index *Chemical Engineering Design* Gavin Towler, Ray Sinnott, 2012-01-25 Chemical Engineering Design Second Edition deals with the application of chemical engineering principles to the design of chemical processes and equipment Revised throughout this edition has been specifically developed for the U S market It provides the latest US codes and standards including API ASME and ISA design codes and ANSI standards It contains new discussions of conceptual plant design flowsheet development and revamp design extended coverage of capital cost estimation process costing and economics and new chapters on equipment selection reactor design and solids handling processes A rigorous pedagogy assists learning with detailed worked examples end of chapter exercises plus supporting data and Excel spreadsheet calculations plus over 150 Patent References for downloading from the companion website Extensive instructor resources including 1170 lecture slides and a fully worked solutions manual are available to adopting instructors This text is designed for chemical and biochemical engineering students senior undergraduate year plus appropriate for capstone design courses where taken plus graduates and lecturers tutors and professionals in industry chemical process biochemical pharmaceutical petrochemical sectors New to this edition Revised

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The AIChE Pocket Handbook American Institute of Chemical Engineers, 1985 Chemical Engineering Catalog, 1919 Chemistry 2e Paul Flowers, Richard Langely, William R. Robinson, Klaus Hellmut Theopold, 2019-02-14 Chemistry 2e is designed to meet the scope and sequence requirements of the two semester general chemistry course The textbook provides an important opportunity for students to learn the core concepts of chemistry and understand how those concepts apply to their lives and the world around them The book also includes a number of innovative features including interactive exercises and real world applications designed to enhance student learning The second edition has been revised to incorporate clearer more current and more dynamic explanations while maintaining the same organization as the first edition Substantial improvements have been made in the figures illustrations and example exercises that support the text narrative Changes made in Chemistry 2e are described in the preface to help instructors transition to the second edition

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Analysis, Synthesis and Design of Chemical Processes Richard Turton, Richard C. Bailie, Wallace B. Whiting, Joseph A. Shaeiwitz, 2008-12-24 The Leading Integrated Chemical Process Design Guide Now with New Problems New Projects and More More than ever effective design is the focal point of sound chemical engineering Analysis Synthesis and Design of Chemical Processes Third Edition presents design as a creative process that integrates both the big picture and the small details and knows which to stress when and why Realistic from start to finish this book moves readers beyond classroom exercises into open ended real world process problem solving The authors introduce integrated techniques for every facet of the discipline from finance to operations new plant design to existing process optimization This fully updated Third Edition presents entirely new problems at the end of every chapter It also adds extensive coverage of batch process design including realistic examples of equipment sizing for batch sequencing batch scheduling for multi product plants improving production via intermediate storage and parallel equipment and new optimization techniques specifically for batch processes Coverage includes Conceptualizing and analyzing chemical processes flow diagrams tracing process conditions and more Chemical process economics analyzing capital and manufacturing costs and predicting or assessing profitability Synthesizing and optimizing chemical processing experience based principles BFD PFD simulations and more Analyzing process performance via I O models performance curves and other tools Process troubleshooting and debottlenecking Chemical engineering design and society ethics professionalism health safety and new green engineering techniques Participating successfully in chemical engineering design teams Analysis Synthesis and Design of Chemical Processes Third Edition draws on nearly 35 years of innovative chemical engineering instruction at West Virginia University It includes suggested curricula for both single semester and year long design courses case studies and design projects with practical applications and appendixes

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