



Chemical Properties Handbook: Physical, Thermodynamics, Environmental Transport, Safety & Health Related Properties for Organic & Inorganic Chemical

By Carl Yaws

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Necessary data that's often hard to find or difficult to calculate, all in one place, in easy-access format. That's what this Handbook provides to scientific, engineering, and environmental professionals, and students, who seek information on how chemicals will behave at different temperatures and under different conditions. Covering both organic and inorganic substances, and providing both experimental values and estimated values based on methods developed by the author and other noted experts, this book can save countless hours of searching for the right source or performing complicated calculations. Useful for hundreds of on-the-job information requirements, this much-needed Handbook makes it easy to obtain critical values for temperature and pressure for design or operation of compressors and turbines; find heat capacity data for heat exchangers; accurately design and safely operate vaporizers and condensers with precise information on enthalpy of vaporization; size vaporizer/condenser storage vessels with density data; determine the heating and cooling requirements of reactors with values for the enthalpy of formation; determine chemical equilibria for reactions using Gibbs' energy of formation; design and operate effective stripping operations for water pollutant removal using water solubility data and Henry's Law Constant; find needed adsorption capacities of activated carbon for cleaning air of various pollutants; use soil sorption coefficient for agricultural applications; solve problems for fluid flow of gases and liquids using viscosity data; use thermal conductivity data for heat transfer applications; use lower and upper explosion limits in air, flash point and autoignition temperature for safety in designs and operations; use threshold limit value (ACGIH), permissible exposure limit (OSHA) and recommended exposure limit (NIOSH) to design facilities while safeguarding health; use thermal expansion coefficient data to design relief systems; and find thousands of other time-saving uses.

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Editorial Review

From the Back Cover

Accurate information on how chemicals behave at different temperatures and under different conditions is often hard-to-find or difficult to calculate. This unique Handbook provides scientific, engineering, and environmental professionals and students with this necessary information, in an all-in-one, easy-access format. This long-needed handbook covers both organic (C1 to C28 compounds) and inorganic (Ag to Zn compounds) substances, and provides both experimental values based on methods developed by the author and other noted experts. It can save countless hours of searching for the right source or performing complicated calculations. Applications to Engineering and All the Sciences: OBTAIN CRITICAL VALUES for temperature and pressure for design or operation of compressors and turbines; FIND HEAT CAPACITY DATA for heat exchangers; ACCURATELY DESIGN AND SAFELY OPERATE vaporizers and condensers with precise information on enthalpy of vaporization; SIZE VAPORIZER/CONDENSER storage vessels with density data; DETERMINE THE HEATING AND COOLING REQUIREMENTS of reactors with values for the enthalpy of formation; DETERMINE CHEMICAL EQUILIBRIA for reactions using Gibbs' energy of formation; DESIGN AND OPERATE EFFECTIVE STRIPPING OPERATIONS for water pollutant removal using water solubility data and Henry's Law Constant; FIND NEEDED ADSORPTION CAPACITIES of activated carbon for cleaning air of various pollutants. USE SOIL ADSORPTION CAPACITIES of activated carbon for cleaning air of various pollutants. USE SOIL SORPTION COEFFICIENT for agricultural applications. SOLVE PROBLEMS FOR FLUID FLOW of gases and liquids in pipes using viscosity data. USE THERMAL CONDUCTIVITY DATA for heat transfer problems of gases and liquids. USE LOWER EXPLOSION LIMIT, upper explosion limit, flash point and autoignition temperature for safety applications. USE THRESHOLD LIMIT VALUE (ACGGIH), permissible exposure limit (NIOSH) to design facilities while safeguarding health; USE THERMAL EXPANSION COEFFICIENT DATA to design relief systems; PLUS thousands of other time-saving uses.

About the Author

Carl Yaws, Ph.D., is a professor of chemical engineering at Lamar University. He has extensive industrial experience in process evaluation research, development, and design at laboratory, pilot plant, and production levels. He has worked for Exxon, Ethyl, and Texas Instruments. The author of 24 books, he holds several patents and has published more than 320 technical articles in process engineering, property data and pollution prevention.

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