



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

By Carl Yaws

[Download now](#)

[Read Online](#)

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

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, flock 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.

 [Download Chemical Properties Handbook: Physical, Thermodyna ...pdf](#)

 [Read Online Chemical Properties Handbook: Physical, Thermody ...pdf](#)

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

By Carl Yaws

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

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, flock 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.

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

- Sales Rank: #1846413 in Books
- Published on: 1998-10-22
- Original language: English
- Number of items: 1
- Dimensions: 11.30" h x 1.61" w x 9.00" l, 4.56 pounds
- Binding: Hardcover
- 784 pages



[Download Chemical Properties Handbook: Physical, Thermodyna ...pdf](#)



[Read Online Chemical Properties Handbook: Physical, Thermody ...pdf](#)

Download and Read Free Online Chemical Properties Handbook: Physical, Thermodynamics, Environmental Transport, Safety & Health Related Properties for Organic & Inorganic Chemical By Carl Yaws

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/CONDESER 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 (ACGIIH), 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.

Users Review

From reader reviews:

Christine Curnutt:

What do you with regards to book? It is not important along? Or just adding material when you need something to explain what you problem? How about your time? Or are you busy particular person? If you don't have spare time to do others business, it is make one feel bored faster. And you have spare time? What did you do? Everyone has many questions above. The doctor has to answer that question due to the fact just their can do that will. It said that about book. Book is familiar in each person. Yes, it is correct. Because start from on pre-school until university need this particular Chemical Properties Handbook: Physical,

Thermodynamics, Environmental Transport, Safety & Health Related Properties for Organic & Inorganic Chemical to read.

Derrick Tompkins:

This book untitled Chemical Properties Handbook: Physical, Thermodynamics, Environmental Transport, Safety & Health Related Properties for Organic & Inorganic Chemical to be one of several books this best seller in this year, this is because when you read this reserve you can get a lot of benefit in it. You will easily to buy this book in the book retail store or you can order it by means of online. The publisher with this book sells the e-book too. It makes you easier to read this book, since you can read this book in your Smart phone. So there is no reason to your account to past this guide from your list.

Jose Garcia:

A lot of people always spent their very own free time to vacation or even go to the outside with them family or their friend. Did you know? Many a lot of people spent that they free time just watching TV, or perhaps playing video games all day long. If you want to try to find a new activity here is look different you can read a book. It is really fun to suit your needs. If you enjoy the book that you just read you can spent 24 hours a day to reading a publication. The book Chemical Properties Handbook: Physical, Thermodynamics, Environmental Transport, Safety & Health Related Properties for Organic & Inorganic Chemical it is quite good to read. There are a lot of those who recommended this book. These were enjoying reading this book. When you did not have enough space to bring this book you can buy often the e-book. You can more effortlessly to read this book out of your smart phone. The price is not too costly but this book features high quality.

Brenda Moulton:

As we know that book is vital thing to add our knowledge for everything. By a guide we can know everything we want. A book is a list of written, printed, illustrated or blank sheet. Every year has been exactly added. This e-book Chemical Properties Handbook: Physical, Thermodynamics, Environmental Transport, Safety & Health Related Properties for Organic & Inorganic Chemical was filled regarding science. Spend your free time to add your knowledge about your research competence. Some people has several feel when they reading the book. If you know how big good thing about a book, you can experience enjoy to read a reserve. In the modern era like right now, many ways to get book that you wanted.

**Download and Read Online Chemical Properties Handbook:
Physical, Thermodynamics, Environmental Transport, Safety &
Health Related Properties for Organic & Inorganic Chemical By
Carl Yaws #D3HN4MTIKV9**

Read Chemical Properties Handbook: Physical, Thermodynamics, Environmental Transport, Safety & Health Related Properties for Organic & Inorganic Chemical By Carl Yaws for online ebook

Chemical Properties Handbook: Physical, Thermodynamics, Environmental Transport, Safety & Health Related Properties for Organic & Inorganic Chemical By Carl Yaws Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Chemical Properties Handbook: Physical, Thermodynamics, Environmental Transport, Safety & Health Related Properties for Organic & Inorganic Chemical By Carl Yaws books to read online.

Online Chemical Properties Handbook: Physical, Thermodynamics, Environmental Transport, Safety & Health Related Properties for Organic & Inorganic Chemical By Carl Yaws ebook PDF download

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

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

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

D3HN4MTIKV9: Chemical Properties Handbook: Physical, Thermodynamics, Environmental Transport, Safety & Health Related Properties for Organic & Inorganic Chemical By Carl Yaws