

Ethylene Mollier Chart

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Ethylene Mollier Chart Mollier hs diagram $x = 1$. Title: Mollier hs diagram Author: Henrik Dam Last modified by: Henrik Created Date: 10/14/1996 11:33:28 PM Other titles: Data Ark1 Blad1 Properties Functions hs-diag. 'Ark1'!Stable._1 ... Mollier hs diagram - henrikdamp.dk Used Formulations. The "Psychrometric Calculator" is based on the formulations developed by Hyland and Wexler. These formulations are approved by ASHRAE as documented in the 1997 ASHRAE Handbook "Fundamentals". Hyland and Wexler presented the equation of state in: Psychrometric Calculator Online It probably would be very difficult, if not impossible to get a

Mollier chart for an LPG mixture of 60% by weight Propane and 40% by weight butane (or is the proportion in moles). I would suggest you use a simulation software to generate enthalpy data for a given pressure and temperature. HYSYS, Aspen Plus or Pro II could be useful. Mollier Chart Or Diagram For Lpg - Student - Cheresources ... Figure 2-8: TS and P-H diagram for liquid sub-cooling in a refrigeration cycle. Exercise 2-4: Implement the sub-cooling cycle in Pro II and report the new COP. Compare it with the dry cycle without sub-cooling and the Carnot cycle. Use streams E and F as initial values. The flowsheet has two loops. Refrigeration Basics and LNG - University of Oklahoma PHYSICAL AND CHEMICAL DATA 2-3 2-146 Linear Expansion of

Miscellaneous Substances.

. . . 2-130 2-147 Cubical Expansion

of Liquids Physical and Chemical

Data The pressure-enthalpy chart,

as shown in Fig. 2, displays all the

pertinent properties for a given

refrigerant (in this example R22).

The bubble to the left is the portion

of the diagram where the

refrigerant is in the saturated

condition. The blue line on the left

of the bubble represents the 100%

saturated liquid line, The Pressure -

Enthalpy Chart Mollier Charts

Mollier Charts (Pressure-Enthalpy

with constant Temperature, Density

and Entropy Lines) Mollier diagram

is a graphical representation of the

thermodynamic properties and

states of materials involving

"Enthalpy" on one of the

coordinates. Mollier diagrams are

named after Richard Mollier. Mollier Charts -

Chemical Logic Psychrometric Chart -

Barometric Pressure 29.921 inches

of Mercury . A psychrometric chart

in English units - temperature

ranging 20 ° F to 120 ° F Mollier

diagrams, air-condition

temperatures and absolute and

relative humidity and moisture

content • Basics . The SI-system,

unit converters, physical constants,

drawing scales and

more Engineering

ToolBox Psychrometric Chart The

psychrometric chart is a variant of

the Mollier diagram used in some

parts of the world. The process

transforming a Mollier diagram to a

psychrometric chart is shown

below. First it has to be reflected in

a vertical mirror, then rotated 90

degrees. MOLLIER
DIAGRAM Entropy, Mollier Diagram
and Steam Tables Course No:
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Thermodynamics Enthalpy
Entropy Mollier and Steam Tables
I... 4.88 pressure-enthalpy diagram
for ethylene 10 100 1000 10000
700 750 800 850 900 950 1000
1050 1100 1150 1200 enthalpy,
Btu/lb pressure (psia) 160 F 140 F
120 F 100 F 80 F 60 F 40 F 20 F 0 F
20 F 240 F 200 F 100 F 0 F 100 F
200 F 300 F liquid liquid-vapor two
phase vapor psia = pounds per
square inch absolute 4.88 pressure-
enthalpy diagram for ethylene NIST

Page NIST Page Ethylene C₂H₄
0.07079 0.411 0.340 1.208 Helium
He 0.4961 1.25 0.753 1.667
Hydrogen H₂ 0.9851 3.43 2.44
1.404 Methane CH₄ 0.1238 0.532
0.403 1.32 Neon Ne 0.09840 0.246
0.1477 1.667 Nitrogen N₂ 0.07090
0.248 0.177 1.400 Octane C₈H₁₈
0.01742 0.409 0.392 1.044 Oxygen
O₂ 0.06206 0.219 0.157 1.395
Propane C₃H₈ 0.04504 0.407
0.362 1.124 Steam H₂O 0.1102
0.445 0.335 1.329 PROPERTY
TABLES AND CHARTS (ENGLISH
UNITS) 0.1 1 10-300 -200 -100 0
100 200 300 400 500 600 700
Enthalpy [kJ/kg] Pressure [MPa]
Propylene Pressure-Enthalpy
Diagram S=Specific Entropy,
kJ/kg*K Propylene Pressure-
Enthalpy Diagram The Mollier chart
(Pressure-Enthalpy diagram) for

ethylene can be obtained from the text by Darby, R., Chemical Engineering Fluid Mechanics, Marcel Dekker, 2001, p. 511. 5 Dr. Pang's Note. 6-13 T = -40 F or S = 1.64 Btu/lb or F Pressure, psia Enthalpy, Btu/lb 1044 1064 200 100 Initial state Chapter 6 From the Mollier chart the enthalpy of the moist air is approximately 40 kJ/kg. The wet bulb temperature is approximately 14.5 °C. The specific humidity is approximately 0.0076 kg/kg. Alternatively - if the dry bulb temperature is 19 °C and the wet bulb temperature is 12 °C - the state of the air can be visualized in the Mollier chart like: Mollier Diagram - Engineering ToolBox An enthalpy-entropy chart, also known as the H-S chart or Mollier diagram, plots the total heat against entropy,

describing the enthalpy of a thermodynamic system. A typical chart covers a pressure range of 0.01–1000 bar, and temperatures up to 800 degrees Celsius. It shows enthalpy H in terms of internal energy U , pressure p and volume V using the relationship $H = U + pV$. Enthalpy-entropy chart - Wikipedia Pictorial views of enthalpy-entropy-pressure diagrams for ethylene based solely on P-V-T relations and ideal gas heat capacities are also shown along with their Mollier projections. Interesting comparisons that confirm our understanding of equations of state are made with H-

S-P diagrams that represent the properties of an ideal gas in contrast ... Computer generated phase diagrams for ethylene and ... In addition to rendering all H and S values positive throughout the diagram, this realignment resulted in the properties shown in Fig. 6 for saturated vapour at 120K, namely $H = 636.5 \text{ Jg}^{-1}$ $S = 5.304 \text{ Jg}^{-1}\text{K}^{-1}$ Fig. 7 is the Mollier diagram for ethylene obtained by projecting in the pressure direction that portion of Fig. 6 with entropy values between 3.0 and 6.0 $\text{Jg}^{-1}\text{K}^{-1}$ and enthalpy values between 550 and 1300 Jg^{-1} . Computer generated phase diagrams for ethylene and ... Ethylene C₂H₄ 0.2964 1.5482 1.2518 1.237 Helium He 2.0769 5.1926 3.1156 1.667 Hydrogen H₂ 4.1240 14.307 10.183 1.405

Methane CH₄ 0.5182 2.2537
1.7354 1.299 Neon Ne 0.4119
1.0299 0.6179 1.667 Nitrogen N₂
0.2968 1.039 0.743 1.400 Octane C
₈H₁₈ 0.0729 1.7113 1.6385 1.044
Oxygen O₂ 0.2598 0.918 0.658
1.395 Propane C₃H₈ 0.1885
1.6794 1.4909 1.126 Steam H

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