

# Ethylene Mollier Chart

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Ethylene Mollier Chart 0.1 1 10 300  
400 500 600 700 800 900 1000  
1100 1200 1300 Enthalpy [kJ/kg]  
Pressure [MPa] T=-100 T=-50 T=0  
T=50 T=100 T=150 T=0 T=-50  
T=-90 T=-80 T=-70 T=-60  
T=-40 Ethylene Pressure-Enthalpy  
Diagram - NTNU 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 Ethylene is a  
gas at standard conditions.

However, at low temperature and/or high pressures the gas becomes a liquid or a solid. The ethylene phase diagram shows the phase behavior with changes in temperature and pressure. The curve between the critical point and the triple point shows the ethylene boiling point with changes in pressure. Ethylene - Thermophysical Properties Pressure-Enthalpy Diagram for Ethylene . So how did we get these points? Points 1 and 3: From the given information in the table, we know that 1 is saturated vapor at  $-100^{\circ}\text{C}$ , and 3 is saturated liquid at  $-25^{\circ}\text{C}$ . Saturated liquids and vapors are on the liquid-vapor dome (shown in purple). To find points 3 and 1, we follow the isotherms for  $-100 \dots$  Ethylene Diagram Pressure-Enthalpy Diagram  $S$ =Specific Entropy,

$\text{kJ/kg}\cdot\text{K}$   $T$ =Temperature,  $^{\circ}\text{C}$  Ethane  
Produced by I. Aartun, NTNU 2002.  
Based on the program Allprops,  
Center for Applied Thermodynamic  
Studies, University of Idaho. 100  
Ethane Pressure-Enthalpy Diagram  
 $S=5.0$   $S=5.5$   $S \dots$  Article Views are  
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Diagram for Ethylene Oxide |  
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ChemicaLogic 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 Ethylene C<sub>2</sub>H<sub>4</sub>

0.2964 1.5482 1.2518 1.237 Helium

He 2.0769 5.1926 3.1156 1.667

Hydrogen H<sub>2</sub> 4.1240 14.307

10.183 1.405 Methane CH<sub>4</sub> 0.5182

2.2537 1.7354 1.299 Neon Ne

0.4119 1.0299 0.6179 1.667

Nitrogen N<sub>2</sub> 0.2968 1.039 0.743

1.400 Octane C<sub>8</sub>H<sub>18</sub> 0.0729

1.7113 1.6385 1.044 Oxygen O<sub>2</sub>

0.2598 0.918 0.658 1.395 Propane

C<sub>3</sub>H<sub>8</sub> 0.1885 1.6794 1.4909 1.126

Steam H<sub>2</sub>O PROPERTY TABLES AND

CHARTS (SI UNITS) Ethylene C<sub>2</sub>H<sub>4</sub> 0.07079 0.411 0.340 1.208 Helium He 0.4961 1.25 0.753 1.667 Hydrogen H<sub>2</sub> 0.9851 3.43 2.44 1.404 Methane CH<sub>4</sub> 0.1238 0.532 0.403 1.32 Neon Ne 0.09840 0.246 0.1477 1.667 Nitrogen N<sub>2</sub> 0.07090 0.248 0.177 1.400 Octane C<sub>8</sub>H<sub>18</sub> 0.01742 0.409 0.392 1.044 Oxygen O<sub>2</sub> 0.06206 0.219 0.157 1.395 Propane C<sub>3</sub>H<sub>8</sub> 0.04504 0.407 0.362 1.124 Steam H<sub>2</sub>O 0.1102 0.445 0.335 1.329 PROPERTY

TABLES AND CHARTS (ENGLISH UNITS) From the Mollier chart the enthalpy of the moist air is approximately 40 kJ/kg. The wet bulb temperature is approximately 14.5 oC. The specific humidity is approximately 0.0076 kg/kg. Alternatively - if the dry bulb temperature is 19 oC and the wet

bulb temperature is 12 oC - the state of the air can be visualized in the Mollier chart like: Mollier Diagram - Engineering ToolBox 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 ... Glycol Correction Factors All Heat exchangers experience a capacity loss when the fluid is a higher specific gravity than water. Glycols are heavy, syrup like fluids at full

concentration, and become thinner when mixed with water. However, the mixed solution of water-glycol will be thicker, heavier, than the water alone was. Thus, to achieve the same heat exchange inside the heat exchanger ... Glycol Charts & About Glycol - American Chillers 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  $\text{Jg}^{-1}$ . Computer generated phase diagrams for ethylene and



... Ethylene Dichloride with a purity of greater than 99.9% by weight. OxyChem's Technical Services Department can provide more product information. Call or write the ices Department OxyChem P.O. Box 12283, Wichita, KS 67277-2283 800-733-1165, Ext.1. SAFETY AND FIRST AID Hazards EDC is a flammable, toxic chemical and should be ... ETHYLENE DICHLORIDE (EDC) HANDBOOK Figure 22 shows the Mollier diagram for the ethylene circuit. As previously discussed, in all low temperature refrigeration systems that use lubricated compressors some type of oil return system must be employed. The design of such systems is more of an art than science. Figure 23 described a R22 Refrigeration System with a -20 oF to -40 oF

... Low Temperature Refrigeration for IQF Freezers Advanced

... Quantity Value Units Method Reference Comment;  $\Delta f H^\circ$  gas: 52.47: kJ/mol: Review: Chase, 1998: Data last reviewed in September, 1965:  $\Delta f H^\circ$  gas:  $52.4 \pm 0.5$ : kJ

... Ethylene - NIST Ethylene-Propylene Copolymer. The ethylene-propylene copolymer is made by the addition of propylene gas to the ethylene monomer in the low pressure polyethylene process(23). The copolymer is characterized by the number of pendant methyl groups. The linear and ordered nature of the materials investigated leads to crystallinity in the polymers. THERMODYNAMIC PROPERTIES OF POLYOLEFINS Nathan Waldman ... Question: Calculate The Horsepower For

Compressing 5,000 Lbs/hr Of Ethylene From 100 Psia, 40oF To 200 Psia. The Adiabatic Efficiency Of The Compressor Is 75%. Include Your Calculations And Mollier Chart.

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