APPENDIX K
Thermodynamic Charts

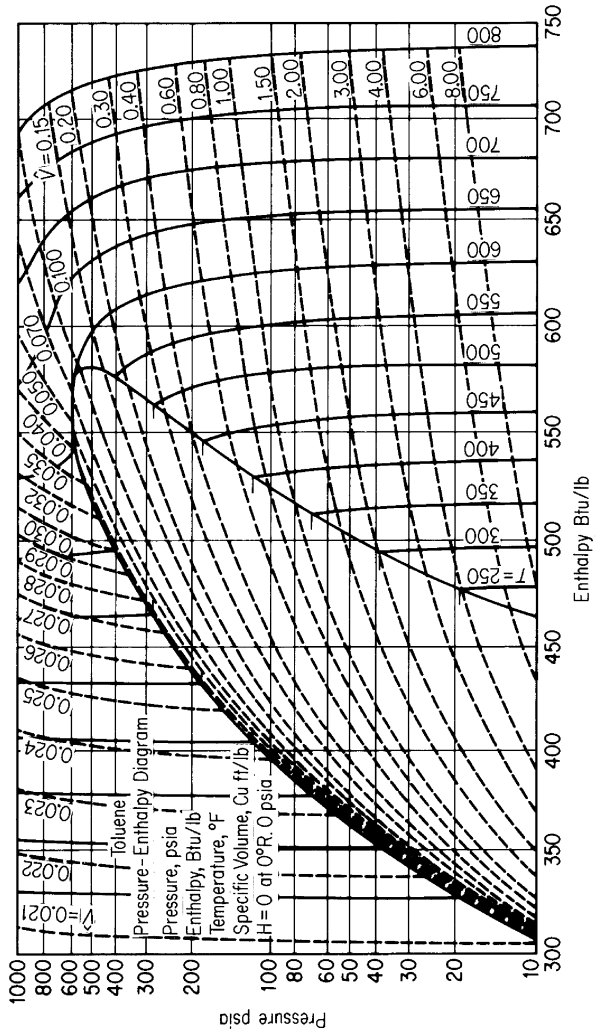


Figure K.1 Pressure-enthalpy chart for toluene

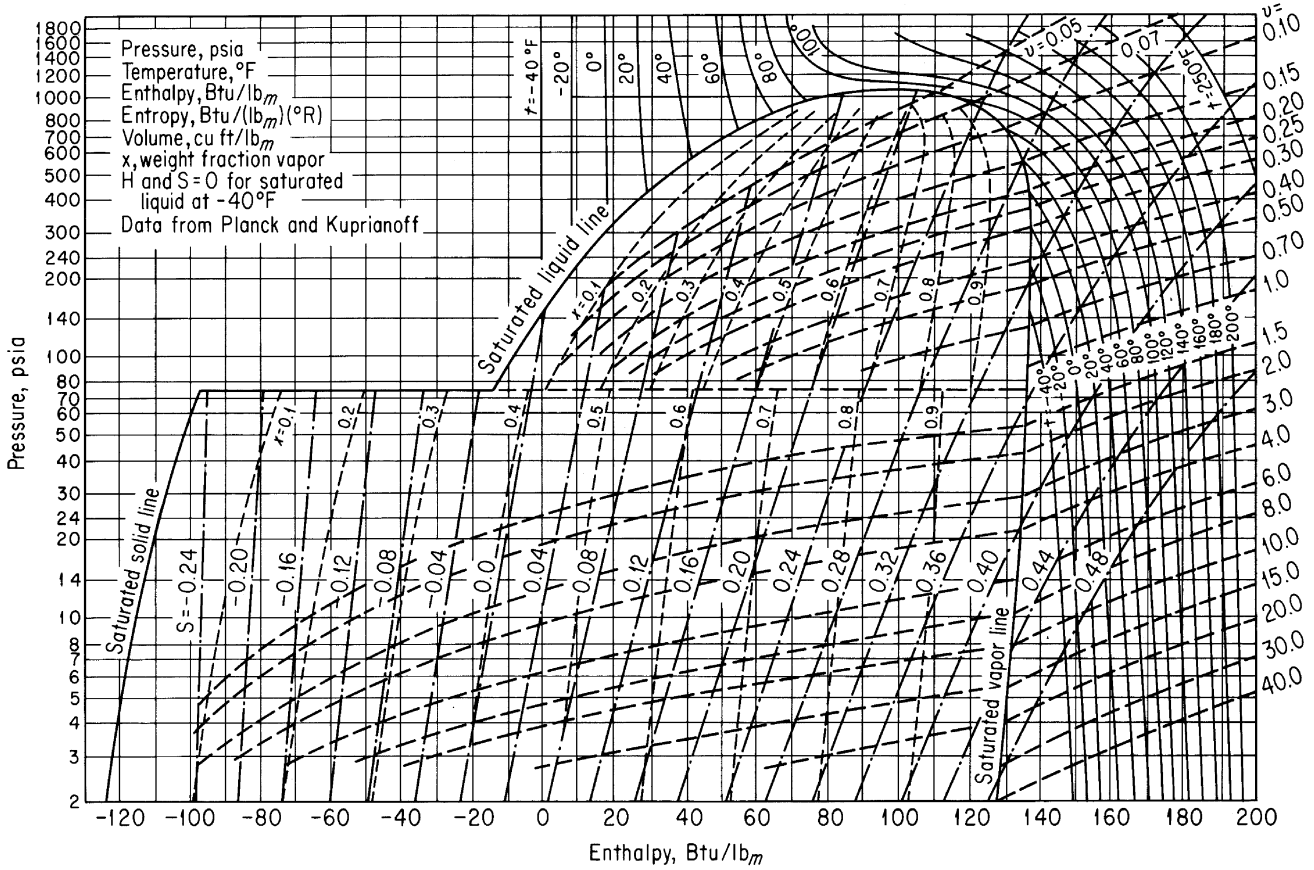
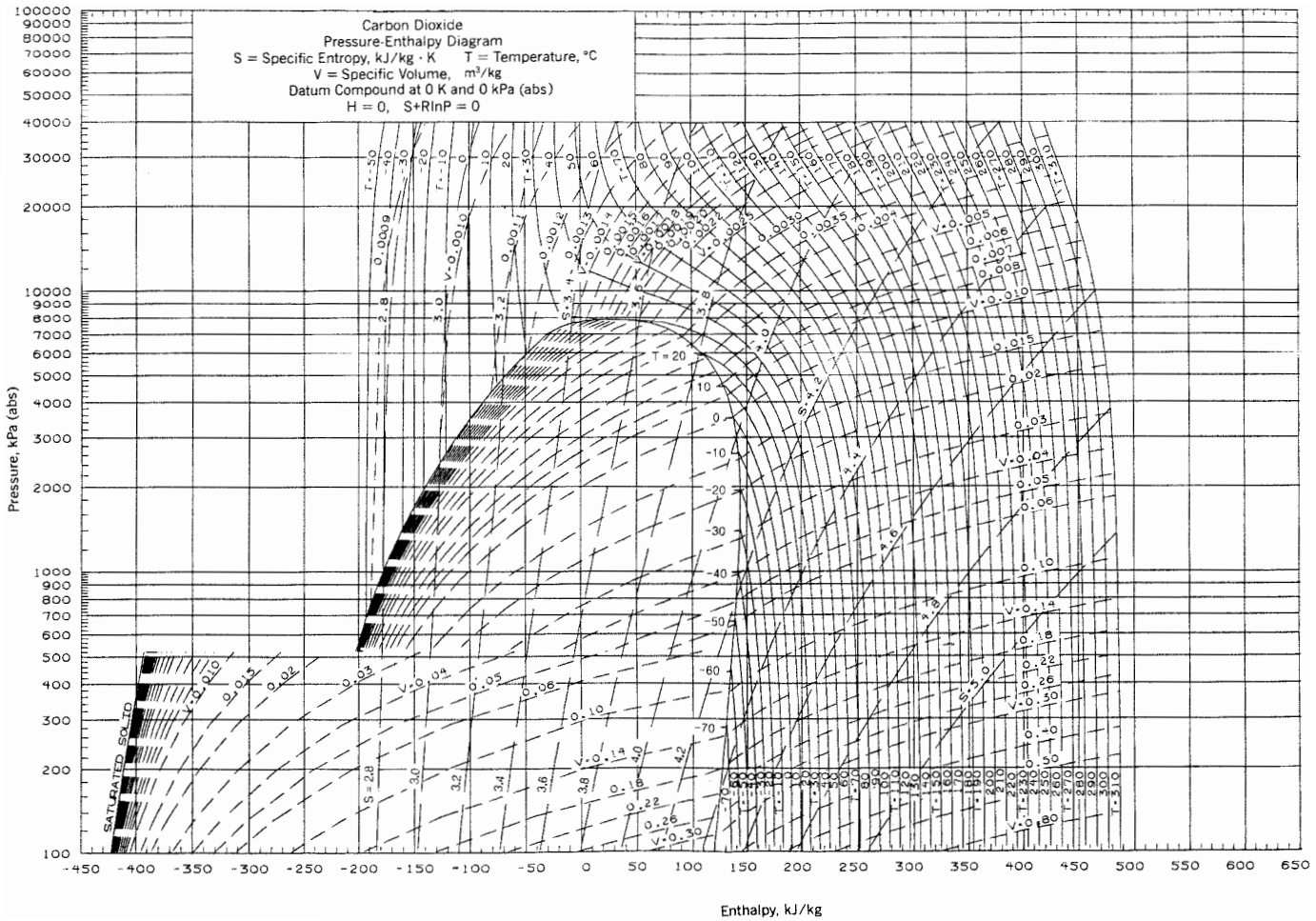
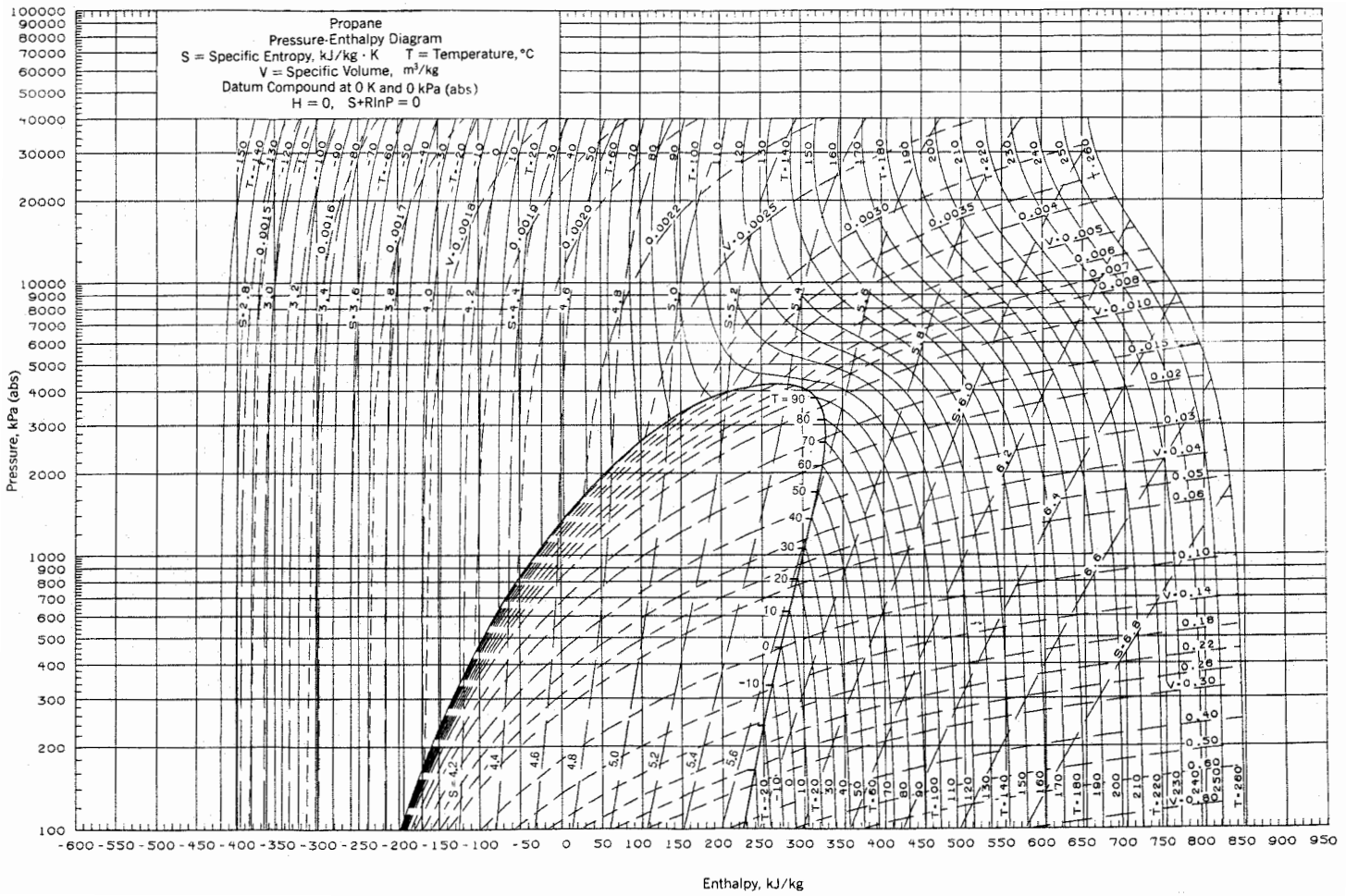
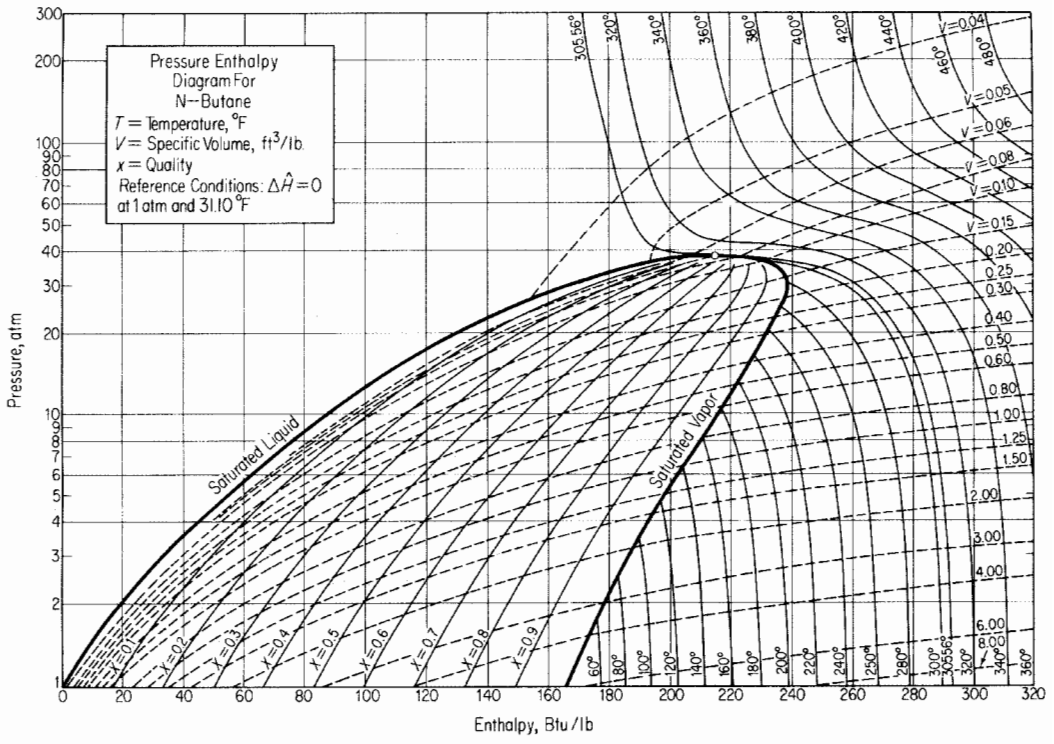
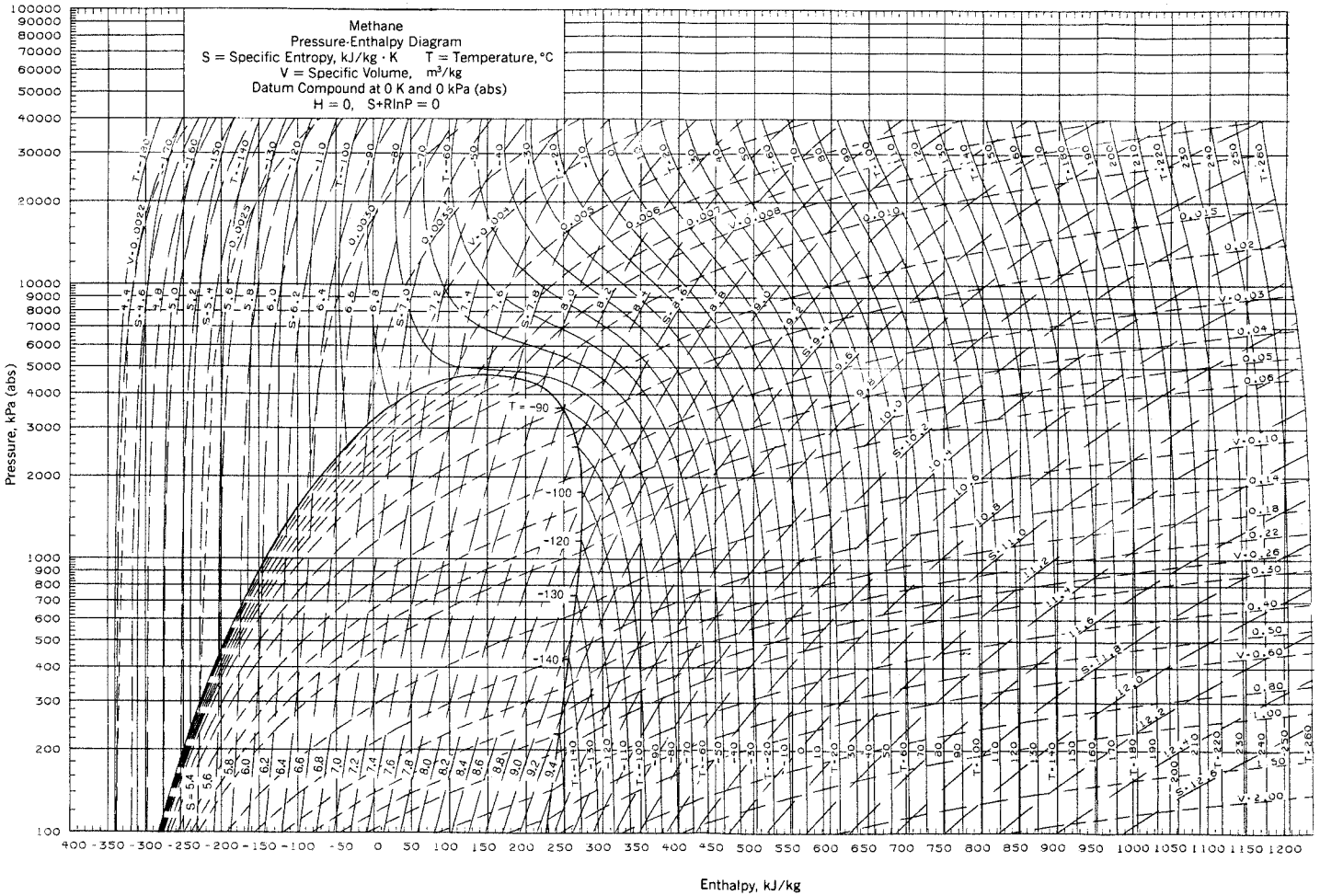


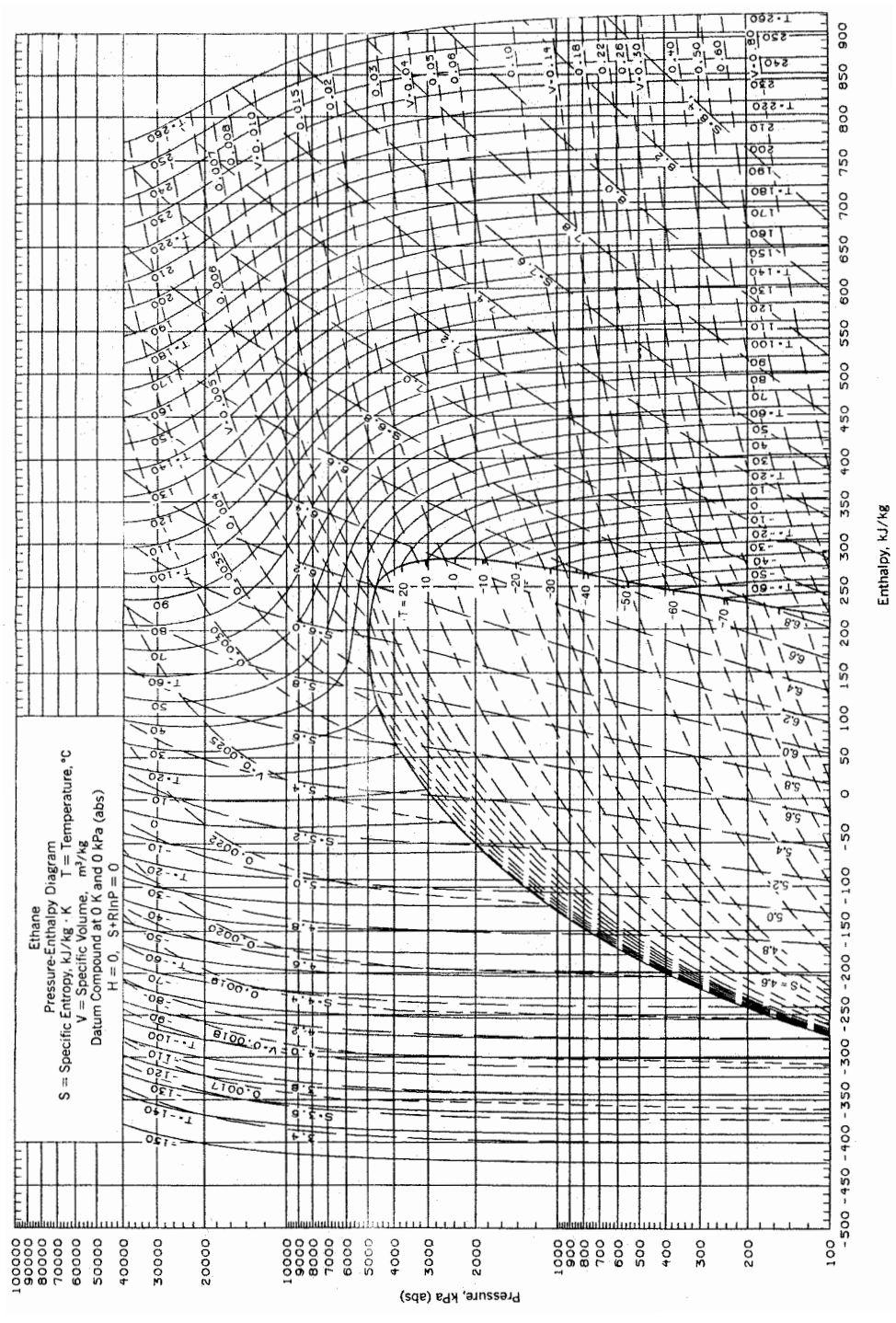
Figure K.2 Pressure-enthalpy chart for carbon dioxide


Carbon Dioxide
Pressure-Enthalpy Diagram
S = Specific Entropy, kJ/kg · K T = Temperature, °C
V = Specific Volume, m³/kg
Datum Compound at 0 K and 0 kPa (abs)
H = 0, S+RlnP = 0
Pressure, kPa (abs)
Enthalpy, kJ/kg
SATURATED SOLID


Propane
Pressure-Enthalpy Diagram
S = Specific Entropy, kJ/kg · K T = Temperature, °C
V = Specific Volume, m³/kg
Datum Compound at 0 K and 0 kPa (abs)
H = 0, S+RlnP = 0
Pressure, kPa (abs)
Enthalpy, kJ/kg


Pressure Enthalpy
Diagram For
N--Butane
T = Temperature, °F
V = Specific Volume, ft³/lb.
x = Quality
Reference Conditions: ΔĤ = 0
at 1 atm and 31.10 °F
Saturated Liquid
Saturated Vapor
Pressure, atm
Enthalpy, Btu/lb


Methane
Pressure-Enthalpy Diagram
S = Specific Entropy, kJ/kg · K T = Temperature, °C
V = Specific Volume, m³/kg
Datum Compound at 0 K and 0 kPa (abs)
H = 0, S+RlnP = 0
Pressure, kPa (abs)
Enthalpy, kJ/kg


Ethane
Pressure-Enthalpy Diagram
S = Specific Entropy, kJ/kg · K T = Temperature, °C
V = Specific Volume, m³/kg
Datum Compound at 0 K and 0 kPa (abs)
H = 0, S+RlnP = 0
Pressure, kPa (abs)
Enthalpy, kJ/kg