



**OxyChem**

A Subsidiary of Occidental Petroleum Corp



**Technical Data Sheet**

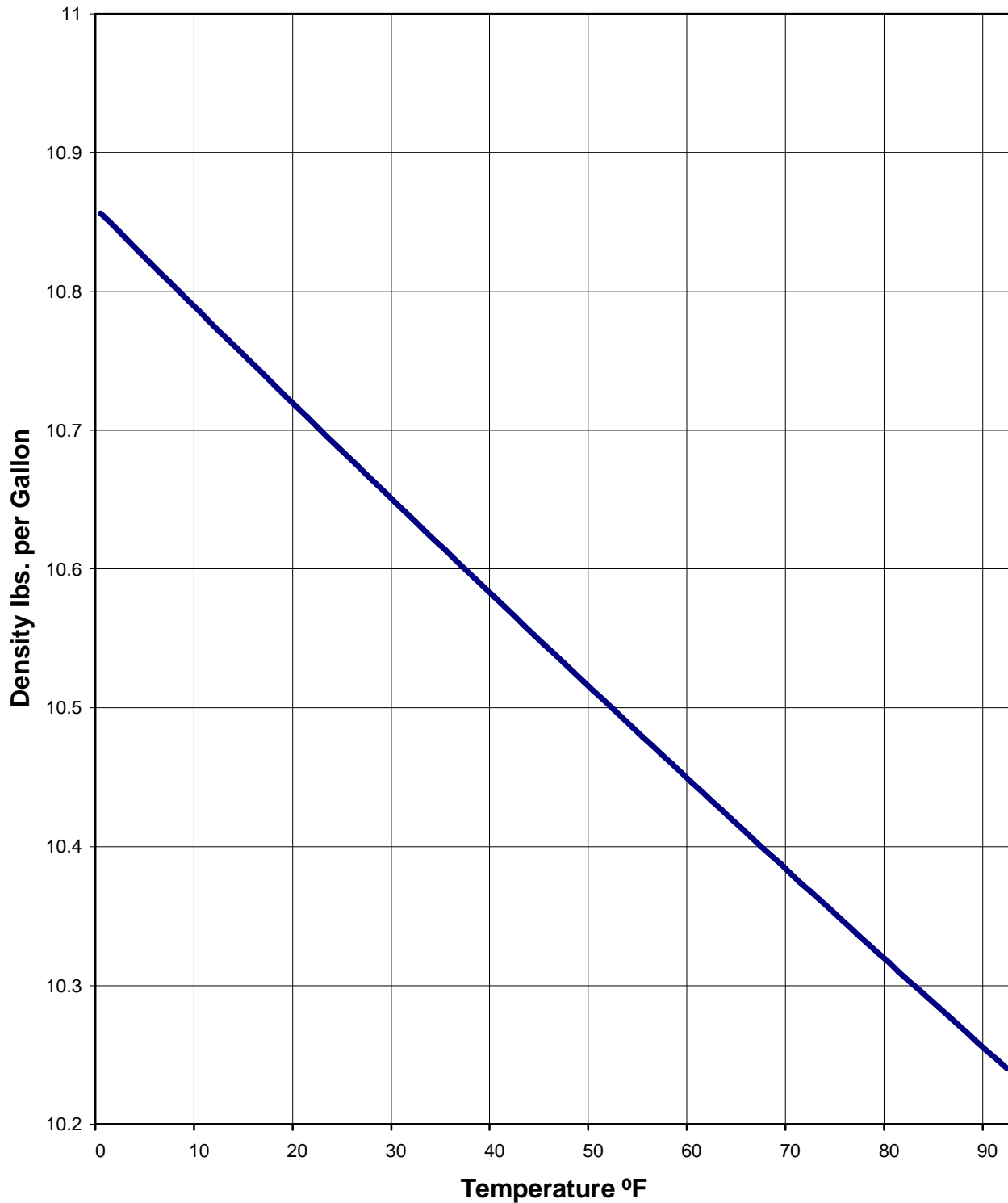
Technical Services 800-733-1165

# Ethylene Dichloride

## Physical Properties

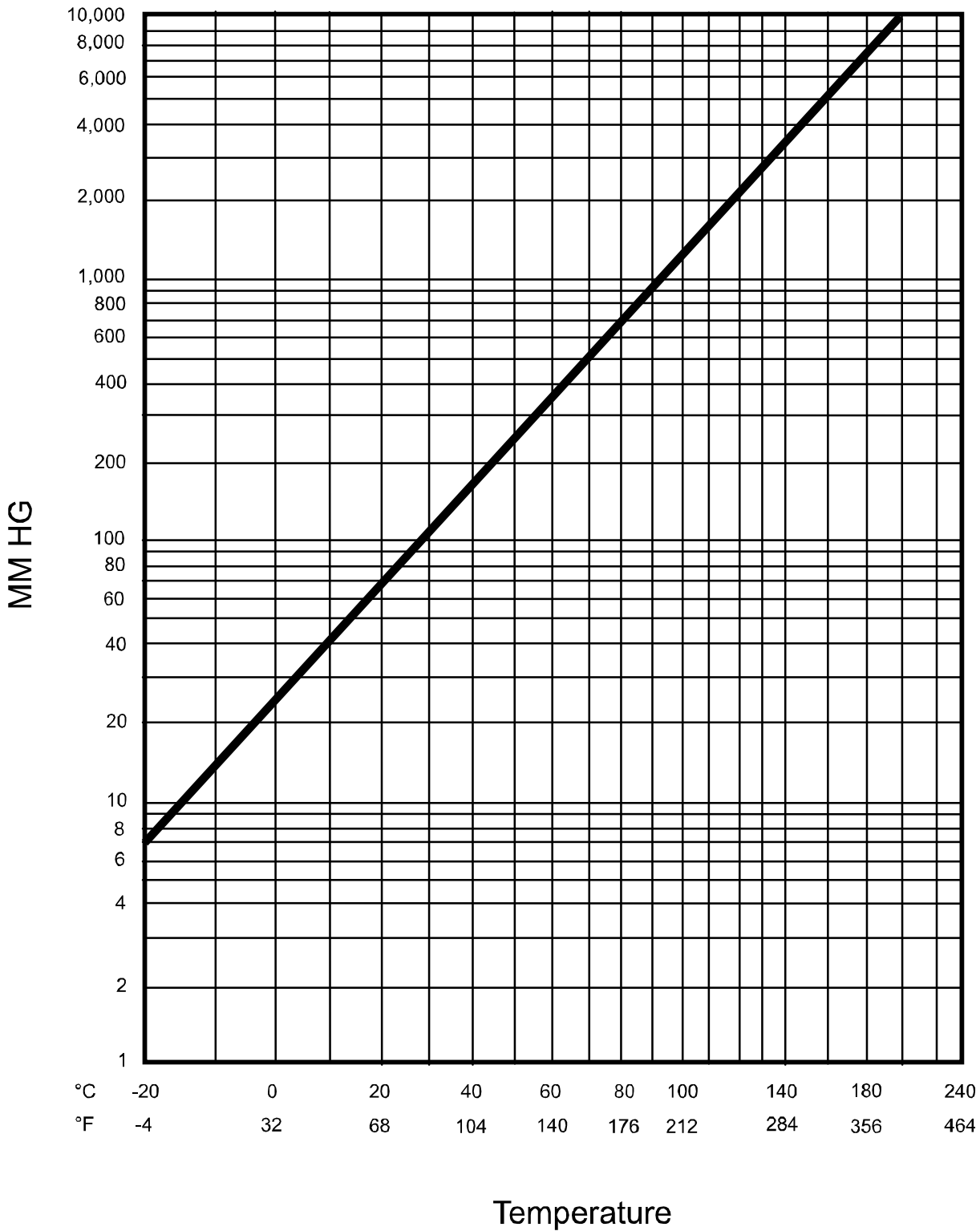
Chemical Formula .....	CH <sub>2</sub> Cl.CH <sub>2</sub> Cl
Molecular Weight .....	98.97
Freezing Point .....	-35.3°C
Boiling Point at 1 ATM .....	83.7°C
Heat of Vaporization at Boiling Point .....	77.7 cal / gm; 140 BTU / lb.
Specific Heat, Liquid at 20° C, cal/gm/°C .....	0.31
Critical Temperature .....	290°C
Thermal Conductivity, Liquid at 20°C, BTU / hr/ ft <sup>2</sup> / °F / ft .....	0.077
Specific Gravity of Liquid, 25/25°C .....	1.250
Density, pounds per gallon at 25°C .....	10.4
Average Coefficient of Cubical Expansion, Liquid, per °C, 20 to 40°C.....	0.0012
Specific Gravity of Vapor at 1 ATM & b. pt. (Air =1) .....	3.4
Viscosity, Liquid at 20°C; centipoise .....	0.84
Solubility at 20°C, EDC in water .....	0.90 / 100g water
Water in EDC .....	0.15 / 100g EDC
Refractive Index n <sub>D</sub> ; Liquid at 20°C .....	1.444
Surface Tension at 20°C, Dynes / cm .....	32.2
Vapor Pressure .....	See Figure 1
Density of Liquid .....	See Figure 2
Flash Point (ASTM D-3278) .....	55°F
Explosive Limits in air, vol % .....	6.2 – 15.9
Evaporation Rate (Ether=100) .....	27
Azeotropic Data: wt. % water .....	8.2
B.P. at 1 ATM.....	72.0°C

## Temperature/Density of EDC



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# VAPOR PRESSURE OF EDC



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