

Ethylene Glycol Solutions Chart

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Ethylene Glycol Solutions Chart

Ethylene Glycol based water solutions are common in heat-transfer applications where the temperature in the heat transfer fluid can be below 32 °F (0 °C). Ethylene glycol is also commonly used in heating applications that temporarily may not be operated (cold) in surroundings with freezing conditions - such as cars and machines with water cooled engines.

Ethylene Glycol Heat-Transfer Fluid - Engineering ToolBox

Glycol Percentage Relative to Freeze Point Propylene Glycol www.ClenAir.com Freezing Point
Propylene Glycol Solution (%) 0% 10% 20% 30% 40% 50% 60% Glycometer™ Temperature (F)° 32°
26° 18° 7° (-8°) (-29°) (-55°) Ethylene Glycol

Glycol Percentage Relative to Freeze Point - ClenAir.com

Ethylene Glycol Solutions Propylene Glycol Solutions Sodium Chloride Brines Calcium Chloride
Brines COMPONENTS: 1 x 4016 Hydrometer, Specific Gravity, 1.000-1.070 ... Using the appropriate chart below, match the specific gravity of the sample from Step 7 to the freezing point of the water.

Freezing Point Determination Instr. #5062 Ethylene Glycol ...

Typical Freezing and Boiling Points of Aqueous Solutions of DOWTHERMTM SR-1 and DOWTHERMTM
4000† Dow Heat Transfer Fluids Freezing Point Wt % Ethylene Glycol Vol % Ethylene Glycol

Typical Freezing and Boiling Points of Aqueous Solutions ...

PROPYLENE GLYCOL - WATER SOLUTION SPECIFIC GRAVITY, CONCENTRATION AND FREEZING POINT
CHART Specific Gravity - SG 60°F 1.000 1.008 1.017 1.026 1.034 1.041 1.046 Propylene Glycol
Solution % by mass 0 10 20 30 40 50 60 by volume 0 10 19 29 40 50 60 ... and Freezing Point
Chart.

Propylene Glycol - Water Solution Specific Gravity ...

You may remember that about 93% of most coolant is ethylene glycol, another few percentage points are water and/or a solvent to keep rust/corrosion inhibitors in solution and the remainder are those inhibitors. The inhibitors make a huge difference, and they're what all the arguments are about. Didn't we talk about all these coolants last year?

Freezing Points of Ethylene Glycol Mixtures

CONVERSION CHARTS ETHYLENE GLYCOL & PROPYLENE GLYCOL The Conversion Charts below are to be used with the PPE Precision Specific Gravity Hydrometer and Beaker. After placing a sample of the glycol in the beaker, check the reading on the hydrometer and match it to the appropriate chart to accurately determine the Glycol to water weight percentage.

Specific Gravity Charts - Plastic Process Equipment homepage

Under normal conditions, propylene glycol and its homologs set to glass-like solids, rather than freezing. The addition of water to a glycol yields a solution with a freezing point below that of water. This has led to the extensive use of glycol-water solutions as cooling media at temperatures appreciably below the freezing point of water.

A Guide to Glycols - Dow

Ethylene glycol may also be one of the minor ingredients in screen cleaning solutions, along with the main ingredient isopropyl alcohol. Ethylene glycol is commonly used as a preservative for biological specimens, especially in secondary schools during dissection as a safer alternative to formaldehyde. It is also used as part of the water-based ...

Ethylene glycol - Wikipedia

Material Safety Data Sheet. The handling of this chemical may incur notable safety precautions. It is highly recommend that you seek the Material Safety Datasheet for this chemical from a reliable source and follow its directions. Science Stuff

Ethylene glycol (data page) - Wikipedia

Ethylene Glycol Product Guide. Ethylene Glycol 1 Table of Contents INTRODUCTION 2

.....Precautions ... Volume Percent vs. Weight Percent of Aqueous Ethylene Glycol Solutions at 68°F (20°C) 12Figure 1: Conversion Chart of Aqueous Solutions of Ethylene Glycol at 68°F (20°C) 13

.....Figure 2: Freezing Points of Aqueous Ethylene Glycol ...

Product Guide - MEGlobal

An ethylene glycol freezing point chart shows the freezing point of a solution consisting of ethylene glycol and another fluid. The most common example of such a solution is the antifreeze solution used in automobiles.

What Is an Ethylene Glycol Freezing Point Chart ...

Densities and Refractive Indexes for Ethylene Glycol-Water Solutions. E. T. Fogg, A. N. Hixson, and A. R. Thompson. ... viscosity, and thermal conductivity of ethylene glycol + water, diethylene glycol + water, and triethylene glycol + water mixtures were measured at temperatures ranging from 290 K to 450 K and concentrations ranging from 25 ...

Densities and Refractive Indexes for Ethylene Glycol-Water ...

ETHYLENE GLYCOL HYDROMETER SCALE - For cooling systems larger than shown, use double the quantity of antifreeze/coolant required for a system one-half as large. For systems smaller than shown, use half the quantity of antifreeze/coolant required for a system twice as large. Ethylene Glycol-Based Engine Antifreeze/Coolant Protection Chart

Ethylene Glycol-Based Engine Antifreeze/Coolant Protection ...

For many heat-transfer applications it is necessary to use a heat-transfer fluid with lower freezing point than water. The most common antifreeze fluid - ethylene glycol - must not be used where there is a chance of leakage to potable water or food processing systems. In food processing systems the common heat-transfer fluid is based on propylene glycol.

Propylene Glycol based Heat-Transfer Fluids

ETHYLENE GLYCOL (INTERCOOL OP-100) ... the freeze point of ethylene or propylene glycol solutions. 7. Why not use automotive antifreeze? The inhibitors in automotive antifreeze are not designed for extended service and cannot be replenished. Additionally, silicated fluids may cause gels in your fluid. Also, the inhibitors are not compatible ...

ETHYLENE GLYCOL (INTERCOOL OP-100)

Figure 4 summarizes the production processes for both ethylene glycol (EG) and propylene glycol (PG) based antifreeze solutions. The specific EG and PG reaction steps utilized in this case study are described in Appendix 5. Both EG and PG are produced from the refining of crude oil and natural gas. They are

V. CASE STUDY: COMPARISON OF ETHYLENE GLYCOL VERSUS ...

The enzyme metabolizes both endogenous substrates, such as ethanol, acetone, and acetal, as well as exogenous substrates including benzene, carbon tetrachloride, ethylene glycol, and nitrosamines which are premutagens found in cigarette smoke.

ethylene glycol | Sigma-Aldrich

Freezing Points of Propylene and Ethylene Glycol Solutions. Printable View « Go Back. Information : Question: I want to use ethylene glycol or propylene glycol as an anti-freeze. What are the freezing points of various aqueous solutions of these chemicals? Answer: The freezing points of these glycol solutions can be found in the tables below:

Freezing Points of Propylene and Ethylene Glycol Solutions

The density, viscosity, and thermal conductivity of ethylene glycol + water, diethylene glycol + water, and triethylene glycol + water mixtures were measured at temperatures ranging from 290 K

to 450 K and concentrations ranging from 25 mol % glycol to 100 mol % glycol. Our data were generally in agreement with the limited data available in the literature and were correlated using simple ...

Ethylene Glycol Solutions Chart

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