

Freezing Point Of Ethylene Glycol Water Solutions Of Different Composition

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Freezing Point Of Ethylene Glycol

Ethylene Glycol Solution (% by mass) 0: 10: 20: 30: 40: 50: 60: Freezing Point Temperature (°F) 32: 23: 14: 2-13-36-70: Freezing Point Temperature (°C) 0-3-8-16-25-37-55

Freezing Points of Propylene and Ethylene Glycol Solutions

Freezing point 100% ethylene glycol at atmospheric pressure is -12.8oC (9oF) 1 Btu/ (lbmoF) = 4,186.8 J/ (kg K) = 1 kcal/ (kgoC) Note! The specific heat of ethylene glycol based water solutions are less than the specific heat of clean water.

Ethylene Glycol Heat-Transfer Fluid - Engineering Toolbox

FREEZING POINTS FOR SOLUTIONS OF ETHYLENE GLYCOL: GLYCOL % BY VOLUME °F °C. 12.5: 25-4: 17: 20-7: 25: 10-12: 32.5: 0-18: 38.5-10-23: 44-20-29: 49-30-34: 52.5-40-40: For optimum cooling, it’s best to use the smallest proportion of anti-freeze commensurate with your local temperatures and block materials.

Freezing Points of Ethylene Glycol Mixtures

Pure ethylene glycol freezes at about –12 °C (10.4 °F) but, when mixed with water, the mixture freezes at a lower temperature. For example, a mixture of 60% ethylene glycol and 40% water freezes at –45 °C (–49 °F). Diethylene glycol behaves similarly.

Ethylene glycol - Wikipedia

Ethylene Glycol 3 9/12/13 Ethylene Glycol: HOCH 2 CH 2 OH CAS Registry Number: 107-21-1 Synonyms: 1, 2-Ethanediol Glycol EG Monoethylene glycol Ethylene glycol is a colorless, practically odorless, low-

Ethylene Glycol - MEGlobal

Ethylene glycol has a freezing point of 8.6°F (-13°C) and a boiling point of 388°F (198°C), and is completely miscible with water. Ethylene glycol is sweet tasting but highly toxic. It must therefore be kept away from children and pets.

Ethylene Glycol - Boiling, Water, Car, and Chemicals ...

aEthylene glycol concentrations greater than 92% are not attainable with DOWTHERMTM 4000 fluid. bFreezing points are below -60°F (-51°C). †Typical properties, not to be construed as specifications. ††Degree Brix is a measure of the sugar concentration in a fluid and is important in fermentation and syrups applications.

Typical Freezing and Boiling Points of Aqueous Solutions ...

For instance, a solution of 10% ethylene glycol freezes at -3.4 C (25.9 F), 30% ethylene glycol freezes at -13.7 C (7.3 F) and 60% ethylene glycol freezes at -52.8 C (-63 F). The freezing point of a 60/40 ethylene glycol/water mixture is much lower than that of either pure ethylene glycol or pure water.

What Is Glycol? How is it Used in a Chiller? | JCY Younger ...

Temperature (F)°32° 26° 18° 7° (-8°) (-29°) (-55°)

Glycol Percentage Relative to Freeze Point

Boiling point (°C) K b (°C/mol/kg) Freezing point (°C) K f (°C/mol/kg) Data source. Aniline. 184.3. 3.69. -5.96.

List of boiling and freezing information of solvents ...

However, when you create a 50/50 mixture using water and ethylene glycol, the boiling point rises to 223°F (106°C) and the freezing point lowers to -35°F (-37°C). When you take it one step further, creating a 30/70 mixture of water and ethylene glycol, the boiling point rises to 235°F (113°C) and the freezing point lowers to -67°F (-55°C).

How Does Antifreeze Work? | Seeburg Service Center

722 satisfied customers. 0.422g sample of nonvolatile solid solute dissolves in 15g of t-butanol. the freezin ... 0.422g sample of nonvolatile solid solute dissolves in 15g of t-butanol. the freezing point of the solution is 23.9C. What is the molality of the solute in the ... read more.

Calculate the freezing point of a solution of 300.0 g of ...

Propylene glycol zing point chart propylene glycol ze protection viscosity of automotive antize choline chloride eutectics low choosing the best coolant it s justEthylene Glycol Heat Transfer FluidWhat S Your Point Ze Or Burst Dynalene IncPropylene Glycol Zing Point Chart PoskinMono Ethylene Glycol AntizeSelecting The Proper Glycol Concentration For Closed Loop Hvac SystemsPro Refrigeration ...

Propylene Glycol Freezing Point Chart - Reviews Of Chart

What is the freezing point of radiator fluid that is 50% antifreeze by mass? for water is 1.86 deegres C/m. Ethylene glycol, the primary ingredient in antifreeze, has the chemical formula. The...

What is the freezing point of radiator fluid that is 50% ...

Ethylene glycol (C 2 H 6 O 2) is a molecular compound that is used in many commercial anti-freezes. A water solution of ethylene glycol is used in vehicle radiators to lower its freezing point and thus prevent the water in the radiator from freezing. Calculate the freezing point of a solution of 400. g of ethylene glycol in 500. g of water.

Freezing Point Depression | Chemistry for Non-Majors

Concentration of ethylene glycol, C2H6O2 molality = moles of solute / kilogram of solvent molality = 8.30g C2H6O2 x (1 mol C2H6O2 / 62.07 g C2H6O2) / 0.07038 kg ethanol = 1.90 m Freezing point...

Calculate the freezing point and boiling point of a ...

Normal Boiling Point 197.1°C 386.8°F BP/ P (750 to 770 mm Hg) 0.337°C/kPa 0.045°C/mm Hg Normal Freezing Point -13°C 8.6°F Onset of Initial Decomposition 240°C 464°F Refractive Index, nD, at 25°C 1.4306 1.4306 Solubility in Water at 20°C 100 wt% 100 wt% Solubility of Water in Ethylene Glycol at 20°C 100 wt% 100 wt%

MONOETHYLENE GLYCOL (MEG) (Monoethylene Glycol / MEG)

Freezing Point Propylene Glycol Solution (%) by mass 0 10 20 30 40 50 60 by volume0 10 19 29 40 50 60 Temperature of 32 26 18 7 -8 -29 -55 oC 0 -3 -9 -16 -23 -35 -48 Due to slush creation propylene glycol and water solutions should not be used close to the freezing points.