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Of Ethylene
Glycol
FREEZING POINTS
FOR SOLUTIONS OF
ETHYLENE GLYCOL. For
optimum cooling, it's best
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proportion of anti-freeze
commensurate with your
local temperatures and

block materials. 10%-20%
of anti-freeze will help
prevent internal corrosion,
especially when using an
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For short term
use,...Freezing Points of
Ethylene Glycol
Mixtures
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 ...
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
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
 www.ClenAir.com
 Freezing Point Ethylene Glycol Solution (%) 0% 10% 20% 30% 40% 50% 60% Glycometer™
 Glycol Percentage Relative to Freeze Point
 The freezing (= melting) point of ethylene glycol (1,2-ethanediol) is $-12.9\text{ }^{\circ}\text{C}$ (260 K or $9\text{ }^{\circ}\text{F}$)
 What is the freezing point of ethylene glycol - Answers
 Freezing point, viscosity, specific gravity and specific heat of ethylene glycol based heat-transfer fluids, or brines. 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
 Freezing Point of Propylene Glycol based Water Solutions. Freezing point of propylene glycol based water solutions at different temperatures:
 Freezing Point Propylene Glycol Solution. (%) by mass 0 10 20 30 40 50

60. by volume 0 10 19 29 40 50 60
 Temperature. of 32 26 18 7 -8 -29
 -55.
 Freezing Point of Propylene Glycol based Water Solutions
 The freezing point of a 60/40 ethylene glycol/water mixture is much lower than that of either pure ethylene glycol or pure water. Mixtures of propylene glycol with water follow a similar pattern, with a 60/40 mixture of propylene glycol with water having a freezing point of $-48\text{ }^{\circ}\text{C}$ ($-55\text{ }^{\circ}\text{F}$).
 What Is Glycol? How is it Used in a Chiller? | JCY Younger ...
 Ethylene glycol is used in the natural gas industry to remove water vapor from natural gas before further processing, in much the same manner as triethylene glycol (TEG).
 Hydrate inhibition. Because of its high boiling point and affinity for water, ethylene glycol is a useful desiccant.
 Ethylene glycol - Wikipedia
 See also "Typical Freezing and Boiling Points of Aqueous Solutions of DOWTHERM SR-1 and DOWTHERM-SR4000" (PDF). Dow Chemical. Dow Chemical. Archived from the original (PDF) on 27 September 2007.
 Ethylene glycol (data page) - Wikipedia
 By altering the percentage of ethylene glycol in the

water, the freezing point may be lowered to accommodate the expected extremes. For example, a solution of 50 percent ethylene glycol and 50 percent water has a freezing point of minus 34.2 degrees Fahrenheit.
 What Is an Ethylene Glycol Freezing Point Chart ...
 The freezing point of the solution is $-7.226\text{ }^{\circ}\text{C}$
 In reality, the freezing point may be closer to $-6.5\text{ }^{\circ}\text{C}$ due to ion pairing between Mg^{2+} and Cl^{-} ions. The van 't Hoff factor is closer to 2.7 for a concentrated solution of MgCl_2 (I don't have a source on that, I've just seen it mentioned a few times over the years.).
 Ion pairs are briefly formed as oppositely charge particles attract and reduce the apparent number of particles.
 ChemTeam: Freezing Point Depression
 The ethylene glycol either gains energy from the source, or dissipates heat to the source, depending if the system is being used for heating or cooling. Due to its low freezing point, ethylene glycol resists freezing. A mixture of 60% ethylene glycol and 40% water does not freeze until temperatures drop below $-45\text{ }^{\circ}\text{C}$ ($-49\text{ }^{\circ}\text{F}$)

F). Ethylene Glycol - The Chemical Company Volumetric and ultrasonic studies on interactions of ethylene glycol, diethylene glycol and triethylene glycol in aqueous solutions of glycerol at temperatures $T = (293.15 \text{ K} - 308.15) \text{ K}$. The Journal of Chemical Thermodynamics 2018 , 125 , 93-106. Freezing Points, Densities, and Refractive Indexes of ... Learn more about these metrics Article Views are the COUNTER-compliant sum of full text article downloads since November 2008 (both PDF and HTML) across all institutions and individuals. These metrics are regularly updated to reflect usage leading up to the last few days. The Altmetric Attention Score is a quantitative measure of the attention that a research article has received online. Freezing Points of the System Ethylene Glycol-Methanol ... Freezing points of propylene glycol based heat-transfer fluids - suitable for the food processing industry Sponsored Links For many heat-transfer applications it is necessary to use a heat-transfer fluid with lower freezing point than water. Propylene Glycol based Heat-Transfer

Fluids Ethylene glycol ($\text{C}_2\text{H}_6\text{O}_2$) 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-Major ethylene oxide and glycols, with over 70 years of experience in their manufacture, marketing, and research and development . The uniform implementation of statistical process control at all of our plants enables ... Freezing Points of Aqueous Triethylene Glycol Solutions. See also "Typical Freezing and Boiling Points of Aqueous Solutions of DOWTHERM SR-1 and DOWTHERM-SR4000" (PDF). Dow Chemical. Dow Chemical. Archived from the original (PDF) on 27 September 2007 . [Freezing Point Of Ethylene Glycol](#) The freezing point of the solution is $-7.226 \text{ }^\circ\text{C}$ In reality, the freezing point may be closer to $-6.5 \text{ }^\circ\text{C}$ due to ion pairing between Mg^{2+} and Cl^-

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- Answers

Volumetric and ultrasonic studies on interactions of ethylene glycol, diethylene glycol and triethylene glycol in aqueous solutions of glycerol at temperatures $T = (293.15 \text{ K} - 308.15) \text{ K}$. The Journal of Chemical Thermodynamics 2018 , 125 , 93-106.

ChemTeam: Freezing Point Depression

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Propylene Glycol based Heat-Transfer Fluids

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[Ethylene glycol - Wikipedia](#)

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Freezing Point Depression | Chemistry for Non-Majors

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Glycol Percentage

Relative to Freeze Point

Propylene Glycol

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Freezing Point Propylene

Glycol Solution (%) 0%

10% 20% 30% 40% 50%

60% Glycometer™

Temperature (F)° 32° 26°

18° 7° (-8°) (-29°) (-55°)

Ethylene Glycol

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Freezing Point Ethylene

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