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Water Solutions
Of Different
Composition

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Water Solutions

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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

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commensurate with
your local
temperatures and
block materials.

**Freezing Points of
Ethylene Glycol
Mixtures**

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

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Freezing Points of Propylene and Ethylene Glycol Solutions

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

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degrees Fahrenheit.
Water Solutions

What Is an Ethylene Glycol Freezing Point Chart?

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.

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Ethylene Glycol Heat- Transfer Fluid - Engineering ToolBox

Ethylene Glycol 3

9/12/13 Ethylene

Glycol: HOCH₂CH₂

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 -

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Ethylene glycol ($C_2H_6O_2$) 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.

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Freezing Point Depression | Chemistry for Non- Majors

Calculate the freezing point of 0.55 mol ethylene glycol and 0.20 mol KBr in 198 g H₂O? Calculate the freezing of 0.55 mol ethylene glycol and 0.20 mol KBr in 198 g H₂O. the normal freezing point...

Calculate the
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Ethylene Glycol
Water Solutions
Of Different
Composition

**freezing point of
0.55 mol ethylene
glycol ...**

Pure ethylene glycol freezes at about $-12\text{ }^{\circ}\text{C}$ ($10.4\text{ }^{\circ}\text{F}$) 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 $-45\text{ }^{\circ}\text{C}$ ($-49\text{ }^{\circ}\text{F}$). Diethylene glycol behaves similarly.

Ethylene glycol -
Page 12/24

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Best top picks for
winterizing glycol
levels to various hvac
systems 10 zing point
of potassium formate 250
2612 glycol brine vs
glycol as heat transfer
fluid Ethylene Glycol
Heat Transfer
Fluid What S Your Point
Ze Or Burst Dynalene
Inc Propylene Glycol
Zing Point Chart
Poskin Mono Ethylene
Glycol Antize Selecting
The Proper Glycol

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Concentration For
Closed Loop Hvac [...]

**Propylene Glycol
Freezing Point Chart
- Reviews Of Chart**

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
oC 0 -3 -9 -16 -23 -35
-48 Due to slush
creation propylene
glycol and water

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solutions should not be used close to the freezing points.

Freezing Point of Propylene Glycol based Water 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

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Ethylene Glycol/Water Solutions Of Different Composition

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 ...

The following data are collected for the measurements of freezing point of an antifreeze solution containing ethylene glycol ($C_2H_6O_2$) in

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water: mass of ethylene glycol = 1.45 g, mass of water = 15.0 g, k_f for water = $1.86 \text{ }^\circ\text{C}\cdot\text{kg/mole}$, freezing point of pure water = $0.0 \text{ }^\circ\text{C}$, and the true molar mass of ethylene glycol = 62.07 g/mol . The cooling curve for the solution is given below.

**Solved: The
Following Data Are
Collected For ... -**

Chegg.com

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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).

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How Does Antifreeze Work? | Seeburg Service Center

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

Glycol Percentage Relative to Freeze Point

Freezing Points of
Propylene and Ethylene
Glycol Solutions. FAQ -
June 27, 2014 I want to
use ethylene glycol or
propylene glycol as an
anti-freeze. What are

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Ethylene Glycol
the freezing points of
various aqueous
solutions of these
chemicals? Sodium
Hydroxide- Product
Regulatory Datasheet.
FAQ - June 27, 2014 ...

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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

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Ethylene Glycol
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)

45 g of ethylene glycol
(C 2 H 4 O 2) is mixed
with 600 g of

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water. Calculate (i) the freezing point depression and (ii) the freezing point of the solution (Given : K_f of water = $1.86 \text{ K kg mol}^{-1}$)

45 g of ethylene glycol ($\text{C}_2\text{H}_4\text{O}_2$) is mixed with 600 g of

...

1.1 This test method covers the determination of the freezing point of an aqueous engine

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coolant solution. 1.2

This test method is designed to cover ethylene glycol base coolants up to a maximum concentration of 60 % (v/v) in water; however, the ASTM interlaboratory study mentioned in 12.2 has only demonstrated the test method with samples having a concentration range of 40 to 60 % (v/v) water.

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