

# Freezing Point Of Ethylene Glycol Water Solutions Of Different Composition

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## Freezing Point Of Ethylene Glycol

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

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

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Freezing point 100% ethylene glycol at atmospheric pressure is  $-12.8^{\circ}\text{C}$  ( $9^{\circ}\text{F}$ )  $1 \text{ Btu/ (lbm}\cdot\text{F)} = 4,186.8 \text{ J/ (kg}\cdot\text{K)} = 1 \text{ kcal/ (kg}\cdot\text{C)}$   
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

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?

Ethylene Glycol 3 9/12/13 Ethylene Glycol:  $\text{HOCH}_2\text{CH}_2\text{OH}$  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 ( $\text{C}_2\text{H}_6\text{O}_2$ ) 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-Majors

In between, freezing points are non-linear. For instance, a solution of 10% ethylene glycol freezes at  $-3.4^{\circ}\text{C}$  ( $25.9^{\circ}\text{F}$ ), 30% ethylene glycol freezes at  $-13.7^{\circ}\text{C}$  ( $7.3^{\circ}\text{F}$ ) and 60% ethylene glycol freezes at  $-52.8^{\circ}\text{C}$  ( $-63^{\circ}\text{F}$ ). The freezing point of a 60/40 ethylene glycol/water mixture is much lower than that of either pure ethylene glycol or pure water. 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 ...

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

...

Pure ethylene glycol freezes at about  $-12^{\circ}\text{C}$  ( $10.4^{\circ}\text{F}$ ) but, when mixed with water, the mixture freezes at a lower temperature.

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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 - Wikipedia

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 solutions should not be used close to the freezing points.

## Freezing Point of Propylene Glycol based Water Solutions

chemistry. 45 g of ethylene glycol is mixed with 600 g of water. What is the freezing point of the solution?  $k_f = 1.86\text{ K kg mol}^{-1}$ .

## 45 g of ethylene glycol is mixed with 600 g of water.

### What ...

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## Propylene Glycol Freezing Point Chart - Reviews Of Chart

Concentration of ethylene glycol,  $\text{C}_2\text{H}_6\text{O}_2$  molality = moles of solute / kilogram of solvent molality =  $8.30\text{ g C}_2\text{H}_6\text{O}_2 \times (1\text{ mol C}_2\text{H}_6\text{O}_2 / 62.07\text{ g C}_2\text{H}_6\text{O}_2) / 0.07038\text{ kg ethanol} = 1.90\text{ m}$  Freezing point...

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

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

## How Does Antifreeze Work? | Seeburg Service Center

Ethylene glycol has a freezing point of  $8.6^{\circ}\text{F}$  ( $-13^{\circ}\text{C}$ ) and a boiling point of  $388^{\circ}\text{F}$  ( $198^{\circ}\text{C}$ ), and is completely miscible with

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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 Chemical ...**

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)**

Antifreeze lowers the freezing point of any liquid to which it is added by preventing ice crystals from forming properly. This experiment will illustrate how ethylene glycol keeps our car engines running during the winter months. Specifically, students will explore the effects antifreeze has on the freezing point of water.

## **Antifreeze and the Freezing Point of Water**

45 g of ethylene glycol (C<sub>2</sub> H<sub>4</sub> O<sub>2</sub>) is mixed with 600 g of water. Calculate (i) the freezing point depression and (ii) the freezing point of the solution (Given : K<sub>f</sub> of water = 1.86 K kg mol<sup>-1</sup>)

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