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# 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

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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**

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**

By altering the percentage of ethylene

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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: HOCH<sub>2</sub>CH<sub>2</sub>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 (C<sub>2</sub>H<sub>6</sub>O<sub>2</sub>) 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**

In between, freezing points are non-linear. For instance, a solution of 10% ethylene glycol freezes at  $-3.4\text{ C}$  ( $25.9\text{ F}$ ), 30% ethylene glycol freezes at  $-13.7\text{ C}$  ( $7.3\text{ F}$ ) and 60% ethylene glycol freezes at  $-52.8\text{ C}$  ( $-63\text{ F}$ ). 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  $-12\text{ }^{\circ}\text{C}$  ( $10.4\text{ }^{\circ}\text{F}$ ) 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.

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## **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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Glycol Zing Point Chart PoskinMono Ethylene Glycol AntizeSelecting The Proper Glycol Concentration For Closed Loop Hvac [...]

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

Concentration of ethylene glycol,  
 $C_2H_6O_2$  molality = moles of solute / kilogram of solvent  
molality =  $8.30g C_2H_6O_2 \times (1 \text{ mol } C_2H_6O_2 / 62.07 \text{ g } C_2H_6O_2) / 0.07038 \text{ kg ethanol} = 1.90 \text{ m}$   
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°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**

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 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



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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 ( $C_2H_4O_2$ ) is mixed with 600 g of water. Calculate (i) the freezing point depression and (ii) the freezing point of the solution (Given :  $K_f$  of water =  $1.86 K kg mol^{-1}$ )

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