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Ethylene Glycol Solution

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Ethylene Glycol based water solutions are common in heat-transfer applications where the temperature in the heat transfer fluid can be below 32 o F (0 o C). 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

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with water cooled engines.

Ethylene Glycol Heat-Transfer Fluid - Engineering Toolbox

Ethylene glycol is a clear, sweet, slightly viscous liquid that boils at 198 °C (388.4 °F). Its most common use is as an automotive antifreeze. A 1:1 solution of ethylene glycol and water boils at 129

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°C (264.2 °F) and freezes at -37 °C (-34.6 °F), serving as an excellent coolant in automotive radiators. Ethylene glycol is highly poisonous; animals or humans that drink the solution become very ill and may die.

ethylene glycol | Properties, Uses, & Structure | Britannica

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Synonym: Ethylene glycol solution

Empirical Formula (Hill Notation): C₂ H₆

O₂. Molecular Weight: 62.07. CAS

Number: 107-21-1

Ethylene glycol 5 M solution - Sigma-Aldrich

If an ethylene glycol solution is made from corrosive water, then the

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corrosivity of the solution is expected to be higher. It was found that the corrosion rate of magnesium in an ethylene glycol solution made from the aggressive water is much higher than that in the solution made from an ASTM type II demineralized water.

Glycol Solution - an overview |

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ScienceDirect Topics

Ethylene glycol may also be one of the minor ingredients in screen cleaning solutions, along with the main ingredient isopropyl alcohol. Ethylene glycol is commonly used as a preservative for biological specimens, especially in secondary schools during dissection as a safer alternative to formaldehyde. It is

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also used as part of the water-based hydraulic fluid used to control subsea oil and gas production equipment.

Ethylene glycol - Wikipedia

1, 2-Ethanediol Glycol EG Monoethylene glycol Ethylene glycol is a colorless, practically odorless, low- volatility, low- viscosity, hygroscopic liquid. It is

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completely miscible with water and many organic liquids. The hydroxyl groups on glycols undergo the usual alcohol chemistry, giving a wide variety of possible derivatives.

Ethylene Glycol - MEGlobal

Ethylene Glycol 50 107-21-1 Deionized
Water 50 7732-18-5 4 - FIRST-AID

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MEASURES BREATHING (INHALATION):
Remove from exposure area to fresh air immediately.

Safety Data Sheet (ETHYLENE GLYCOL 50% SOLUTION)

Ethylene Glycol Solution (% by mass) 0.
10. 20. 30. 40. 50. 60. Freezing Point
Temperature (°F)

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Freezing Points of Propylene and Ethylene Glycol Solutions

DESCRIPTION: Ethylene glycol is a useful industrial compound found in many consumer products, including automotive antifreeze, hydraulic brake fluids, some stamp pad inks, ballpoint pens, solvents, paints, plastics, films,

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and cosmetics; it also is used as a pharmaceutical vehicle.

ETHYLENE GLYCOL : Systemic Agent - CDC

However, EGW solutions formulated for the automotive industry often have silicate based rust inhibitors that can coat and/or clog heat exchanger

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surfaces. Ethylene glycol is listed as a toxic chemical requiring care in handling and disposal. Ethylene glycol has desirable thermal properties, including a high boiling point, low freezing point, stability over a wide range of temperatures, and high specific heat and thermal conductivity.

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Antifreeze - Wikipedia

Expert Answer: 20% of $C_2H_6O_2$ by mass is present. That means solution has 20 g of ethylene glycol and 80 g of water.

calculate the mole fraction ethylene glycol $C_2H_6O_2$ and ...

Ethylene glycol is used as antifreeze in

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cooling and heating systems, in hydraulic brake fluids, as an industrial humectant, as an ingredient of electrolytic condensers, as a solvent in the paint and plastics industries, in the formulations of printers' inks, stamp pad inks, and inks for ballpoint pens, as a softening agent for cellophane, and in the synthesis of safety explosives,

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plasticizers, synthetic fibers (Terylene, Dacron), and synthetic waxes.

Ethylene Glycol - US EPA

P2906: Poly(ethylene glycol) Hybri-Max[™], mol wt 3,000-3,700, waxy solid, BioReagent, suitable for hybridoma : Hybridoma 3,000-3,700

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Poly(ethylene glycol) (PEG) and PEG Solutions - Essential ...

Ethylene glycol ($\text{HOCH}_2\text{CH}_2\text{OH}$) is a colorless, syrupy liquid. It can harm the eyes, skin, kidneys, and respiratory system. Ethylene glycol can cause death if swallowed. Workers may be harmed from exposure to ethylene glycol.

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Ethylene Glycol | NIOSH | CDC

Ethylene glycol is a clear, sweet, slightly viscous liquid that boils at 198 °C (388.4 °F). Its most common use is as an automotive antifreeze. A 1:1 solution of ethylene glycol and water boils at 129 °C (264.2 °F) and freezes at -37 °C (-34.6 °F), serving as an excellent coolant in automotive radiators.

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ethylene glycol-based fluids Solutions of DOWTHERM ethylene glycol-based fluids are widely used for secondary cooling and heating applications, for freeze and burst protection of pipes, and for various deicing, defrosting, and dehumidify-ing

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applications. They contain specially formulated packages of industrial inhibitors that help prevent corrosion.

Engineering and Operating Guide for DOWTHERM SR-1 and ...

As the table shows, ethylene glycol is a more efficient freeze-point depressant for hydronic fluids. This is due to the fact

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that an aqueous solution requires less ethylene glycol to achieve the desired freeze point. Therefore, the solution contains a higher concentration of water, and water provides the most efficient heat transfer capacities.

Which to Use: Ethylene or Propylene Glycol? | 2017-08-01 ...

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Typical Freezing and Boiling Points of Aqueous Solutions of DOWTHERMTM SR-1 and DOWTHERMTM 4000† Dow Heat Transfer Fluids

Freezing Point	Wt % Ethylene Glycol	Vol % Ethylene Glycol	Vol % DOWTHERM SR-1	Vol % DOWTHERM 4000	Boiling Point	Refractive Index	Degree Brix††	
°C	°F	°C	°F	°C	°F	760 mm Hg	°C at 0.96 Barr	32.0

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29.4 26.2 22.2 17.9 0.0-1 ...

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