

Density Of Propylene Glycol Solutions

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Density Of Propylene Glycol Solutions

For many heat-transfer applications it is necessary to use a heat-transfer fluid with lower freezing point than water. The most common antifreeze fluid - ethylene glycol - must not be used where there is a chance of leakage to potable water or food processing systems. In food processing systems the common heat-transfer fluid is based on propylene glycol.

Propylene Glycol based Heat-Transfer Fluids

PROPYLENE GLYCOL - WATER SOLUTION SPECIFIC GRAVITY, CONCENTRATION AND FREEZING POINT CHART Specific Gravity - SG 60°F 1.000 1.008 1.017 1.026 1.034 1.041 1.046 Propylene Glycol Solution % by mass 0 10 20 30 40 50 60 by volume 0 10 19 29 40 50 60 Freezing Point Temperature °F 32 26 18 7 -8 -29 -55 °C 0 -3 -8 -14 -22 -34 -48

Propylene Glycol - Water Solution Specific Gravity ...

Technical Data Propylene Glycol Density of Aqueous Propylene Glycol Solutions Density Chart Source: Glycols. Curme and Johnston, Reinhold Publishing Corp., New York (1952). Before using a product sold by a company of the LyondellBasell family of companies, users should make their own independent determination that the product is suitable for the

Technical Data Propylene Glycol - LyondellBasell

Propylene glycol (IUPAC name: propane-1,2-diol) is a synthetic organic compound with the chemical formula $C_3H_8O_2$. It is a viscous, colorless liquid which is nearly odorless but possesses a faintly sweet taste. Chemically it is classed as a diol and is miscible with a broad range of solvents, including water, acetone, and chloroform. It falls within the same class of compounds as alcohols.

Propylene glycol - Wikipedia

Prepare seven solutions with varying concentrations of propylene glycol in water (between 0 - 100 mole % polypropylene glycol). Label all solutions. These will be used for calibration.

Viscosity of Propylene Glycol Solutions | Protocol

The weight per gallon of a glycol or aqueous glycol solution is determined as follows: Density in g/ml at t°C x 8.345 = lb/gal at t°C Pounds per gallon 77°F (25°C) zPropylene Glycol 8.62 zDipropylene Glycol 8.53 zTripropylene Glycol 8.51 Volume changes resulting from heating or cooling glycol-water solutions may be readily calculated from the data presented in the below graphs.

Propylene Glycols - Density Values Page 1 of 5

A Guide to Glycols 24. Figure 17- Densities of Aqueous Dipropylene Glycol Solutions larger view Figure 18- Densities of Aqueous Tripropylene Glycol Solutions larger view. A Guide to Glycols 25 Surface Tension Surface tension is the force on the surface of a liquid which tends to diminish the surface area to a minimum.

A Guide to Glycols - msdssearch.dow.com

ETHYLENE GLYCOL & PROPYLENE GLYCOL The Conversion Charts below are to be used with the PPE Precision Specific Gravity Hydrometer and Beaker. After placing a sample of the glycol in the beaker, check the reading on the hydrometer and match it to the appropriate chart to accurately determine the Glycol to water weight percentage. Rev. 1/6/05

Specific Gravity Charts - Plastic Process Equipment homepage

Density, Viscosity and Thermal Conductivity of Aqueous Solutions of Propylene Glycol, Dipropylene Glycol, and Tripropylene Glycol between 290 K and 460 K. School of Chemical & Biomolecular Engineering, Georgia Institute of Technology, Atlanta, Georgia 30332-0100. J. Chem. Eng.

Density, Viscosity and Thermal Conductivity of Aqueous ...

The density of ethylene glycol is higher than water - check the specific gravity (SG) table above, so the net impact on the heat transport capacity is reduced. Example - the specific heat of an ethylene

glycol water solution 50% / 50% is 0.815 at 80 oF (26.7 oC). Specific gravity at the same conditions is 1.077.

Ethylene Glycol Heat-Transfer Fluid - Engineering ToolBox

As for other solutions, the freezing point refers to the first appearance of solid crystals when cooling the liquid solution, but this is not the end of the process; e.g. a salty solution like seawater starts to freeze at 1.9 – °C, 75% of the water is frozen at equilibrium at 10 °C, and there remains some liquid down to – 21 °C (the –

Properties of solutions - UPM

propylene glycol-based fluids Solutions of DOWFROST propylene 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 dehumidifying applications. They contain specially formulated packages of industrial inhibitors that help pre-

Engineering and Operating Guide for DOWFROST and DOWFROST ...

Experimental and calculated values of density, viscosity, surface tension and molar volume data are listed in Table 1. The behavior of density in mixtures of propylene glycol + water shows a peak at a mole fraction of ~0.4 of propylene glycol. The viscosity of the binary mixtures was increased non-linearly with the mole fraction of propylene glycol.

Density, viscosity, surface tension, and molar volume of ...

Propylene glycol | C3H8O2 | CID 1030 - structure, chemical names, physical and chemical properties, classification, patents, literature, biological activities, safety/hazards/toxicity information, supplier lists, and more. NIH NLM U.S. National Library of Medicine NCBI National Center for Biotechnology Information.

Propylene glycol | C3H8O2 - PubChem

Viscosity of Aqueous Propylene Glycol Solutions Source: Glycols. Curme and Johnston, Reinhold Publishing Corp., New York (1952). Before using a product sold by a company of the LyondellBasell family of companies, users should make their own independent determination that the product is suitable for the intended

Technical Data Propylene Glycol - LyondellBasell

The densities and viscosities of concentrated aqueous solutions of polyethylene glycol (10-50 mass %) have been measured. The polyethylene glycol samples had average molecular masses of 8000, 3350, and 1000. The values of the density from 277 to 298 K show a linear variation with the polyethylene glycol concentration

Aqueous Solutions of Polyethylene Glycol Density and ...

The brines considered here are aqueous solutions of ETHYLENE GLYCOL and of PROPYLENE GLYCOL, which happen to be two of the most common in refrigeration, heat pump, air conditioning and solar thermal applications. Before describing the models, a special mention of atmospheric air as a secondary fluid is necessary.

THERMOPHYSICAL PROPERTIES OF BRINES - mrc-eng.com

PRODUCT. POUNDS PER GALLON. PRODUCT. POUNDS PER GALLON. Acetone: 6.60.
Monoethanolamine 85%: 8.45. Aluminum Sulfate – 50% Liquid: 11.0. Muriatic Acid 20°: 9.67 ...

Product Density Chart | Bates Chemical, Inc.

The density, viscosity, and thermal conductivity of propylene glycol + water, dipropylene glycol + water, and tripropylene glycol + water mixtures were measured at temperatures ranging from 290 K to 460 K and concentrations ranging from 25 mol % glycol to 100 mol % glycol.

Density, Viscosity and Thermal Conductivity of Aqueous ...

Ethylene Glycol Product Guide. Ethylene Glycol 1 Table of Contents INTRODUCTION 2
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Ethylene Glycol Solutions at Various Contact Temperatures 22Figure 11: Surface Tensions of
Pure Ethylene Glycol at Various Temperatures 23Figure 12: Surface ...

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