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Ethylene Glycol
Solutions

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The dynamic viscosity of an ethylene glycol based water solution is increased compared with the dynamic viscosity of clean water. As a consequence the head

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loss (pressure loss) in the a piping system with ethylene glycol is increased compared to clean water. Specific Gravity of Ethylene Glycol based Water Solutions

Ethylene Glycol Heat-Transfer Fluid -

Engineering ToolBox

Kinematic viscosities of aqueous mixtures containing poly (ethylene glycol)s (PEGs) with nominal

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molecular masses ranging from (200 to 10 000) $\text{g}\cdot\text{mol}^{-1}$ have been determined at various concentrations and temperatures. The binary experimental data were used to adjust the parameters of a Kumar-like equation.

Kinematic

Viscosities of

Poly(ethylene

glycol) Aqueous ...

The viscosities of

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Solutions
aqueous solutions of some poly (ethylene glycol)s (PEG) with nominal molecular weights ranging from 300 to 35 000 g mol⁻¹ were determined up to a concentration of 0.3 g cm⁻³ at 298.15 K. From these data the intrinsic viscosity and the viscosity average molecular weight of the solute were calculated.

Viscosity of aqueous

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**solutions of
poly(ethylene
glycol)s ...**

Density, Viscosity, and
Excess Properties for
Aqueous Poly(ethylene
glycol) Solutions from
(298.15 to 323.15) K.
Journal of Chemical &
Engineering Data 2008,
53 (11) , 2598-2601.

DOI:

10.1021/je800464t.

**Viscosities of
aqueous glycol
solutions | Journal of**

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At 68 degrees Fahrenheit, the viscosity of ethylene glycol is 16.9 centipoise, nearly 17 times that of water. However, if it is heated to 140 degrees Fahrenheit, its viscosity drops to 5.2 centipoise. Viscosity is the measure of a substance's resistance to flow.

What Is the
Page 10/26

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Ethylene Glycol
Viscosity of Ethylene Glycol Solutions

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

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formaldehyde. It is also used as part of the water-based ...

Ethylene glycol - Wikipedia

(ETHYLENE GLYCOL 50% SOLUTION) PAGE 2 of 10 P501: Dispose of contents/container: Treatment, storage, transportation and disposal must be in accordance with Federal, State/Provincial and Local Regulations.

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Viscosity Of

Ethylene Glycol
Solutions

Regulations may vary in different locations. Characterization and compliance with applicable laws are the responsibility solely of the generator.

**Safety Data Sheet
(ETHYLENE GLYCOL
50% SOLUTION)**

Crude oil viscosity as function of gravity - Viscosity at 20°C/68°F and 50°C/122°F for more than 120 crudes is shown as function of

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specific
gravity@15°C/60°F;
Dynamic or Absolute
Viscosity Converting
Chart - Dynamic
viscosity converting
chart with units like
Poiseuille - Poise -
centiPoise and more

Dynamic Viscosity of common Liquids - Engineering ToolBox

ETHYLENE GLYCOL &
PROPYLENE GLYCOL

The Conversion Charts
below are to be used

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Viscosity Of

Ethylene Glycol

Solutions

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**

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Viscosity Of

Ethylene Glycol

1, 2-Ethanediol Glycol

EG Monoethylene

glycol Ethylene glycol

is a colorless,

practically odorless,

low- volatility, low-

viscosity, hygroscopic

liquid. It is 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.

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Viscosity Of

Ethylene Glycol -

MEGlobal

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 applications. They contain specially formulated packages of

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Solutions
industrial inhibitors
that help prevent ...

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

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)

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Viscosity Of

Ethylene Glycol

Solutions
and freezes at $-37\text{ }^{\circ}\text{C}$
($-34.6\text{ }^{\circ}\text{F}$), serving as
an excellent coolant in
automotive radiators.

**ethylene glycol |
Properties, Uses, &
Structure |
Britannica**

Glycols are more
viscous than water
alone. Solution
viscosity increases with
an increase in glycol
concentration or a
decrease in
temperature. At low

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temperatures, propylene glycol solutions become considerably more viscous than ethylene glycol solutions.

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

Temperature dependencies of relative viscosity for the inhibited aqueous solutions of the propylene glycol (54%

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Ethylene Glycol

by mass) with
nanoparticles of TiO_2
and Al_2O_3 .

**(PDF) VISCOSITY OF
TERNARY
SOLUTIONS
COMPOSED OF
PROPYLENE ...**

Propionic - offering
reduced viscosity and
improved solvent
diffusion, propionic
esters provide
substantial flexibility in
formulating automotive
refinish, OEM,

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Viscosity Of

Ethylene Glycol

Solutions
electrostatic spray, and
appliance coatings.

They are also
commonly used in
cleaning fluids and
printing inks, and as
polymerization
solvents for high solids
acrylics resins. Glycol

...

**Oxygenated
Solvents & Glycol
Ethers | Dow Inc.**

Dynamic viscosity

X10-3 [N.s/m²]

Cinematic viscosity

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Viscosity Of

Ethylene Glycol

X10⁻⁶ [m² /s]

Monoethylenglycol

C₂H₄(OH)₂. 20-10-10 0

20 40 60 80 100: 1038

1036 1030 1022 1014

1006 997: 3.85 3.87

3.90 3.93 3.96 3.99

4.02: 0.498 0.50 0.512

0.521 0.531 0.540

0.550: 5.19 3.11 1.65

1.02 0.71 0.523 0.409:

5 3 1.6 1.0 0.7 0.52

0.41: 34-20-20 0 20 40

60 80 100: 1069 1063

1055 ...

Table 8-3-1 -

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**Properties of
mixture**

Water/Glycol

Ethylene glycol heat transfer fluid ethylene density and specific weight density of ethanol water mixtures viscosity of automotive antifreeze table and.

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**Ethylene Glycol
Water Mixture
Density Table |
Brokeasshome.com**

Diethylene Glycol 2
9/12/13

INTRODUCTION

Precautions Carefully
review our current
Material Safety Data
Sheets. About
MEGlobal MEGlobal™
is a world leader in the
manufacture and
marketing of merchant
monoethylene glycol
(MEG) and

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ecf8427e.