

DIETHYLENE GLYCOL

DESCRIPTION

Diethylene glycol is a colorless, odorless, hygroscopic and slightly viscous liquid completely miscible with water and many other organic solvents. The industrial grade is used as a drying agent for natural gas and as a plasticizing and lubricating agent for many natural and synthetic products, especially fibers. It is also used as solvent for shellac, cellulose nitrate and resin and as a component in printing ink formulations.

SPECIFICATIONS

	VALUE
Appearance	Substantially free of suspended matter
Diethylene glycol, wt. % min.	99.0
Monoethylene glycols, wt.% max.	0.5
Triethylene glycols, wt. % max.	0.5
Color (APHA) max.	15
Acidity (as acetic acid), wt. % max.	0.005
Ash, wt. % max.	0.005
Distillation range at 760 mm Hg	
Initial boiling point, °C, min	242
Dry point, °C, max	250
Water, wt. % max.	0.2

TYPICAL PROPERTIES

	TYPICAL VALUE
Molecular weight	106.1
Flash point (PMCC), °F (°C)	280 (138)
Boiling point at 760 mm Hg, °C (°F)	245 (473)
Freezing point, °C (°F)	-8 (17.6)
Specific gravity at 20/20°C	1.118
Specific heat at 20°C, cal/g/°C	0.50
Absolutely viscosity	
at 0°C, cP	127
at 25°C, cP	29
at 65.5°C, cP	4
Refractive index at 20°C	1.447

TYPICAL PROPERTIES

	TYPICAL VALUE
Latent heat of vaporization at 760 mm Hg,	
joules/g	541
cal/g	129
BTU/lb	232
Coefficient of expansion per °C at 20°C	0.00064
Surface tension at 20°C, dynes/cm ²	44.7
Thermal conductivity at 20°C	
watt/m°C	0.210
cal cm/sec cm ² °C	0.00050
Vapor pressure at 20°C, mm Hg	< 0.01
Weight/gal. (US) in lbs. at 20°C	9.31

DISCLAIMER

This information contained in the data sheet is to the best of our knowledge correct and up to date. Under well-defined conditions. Its accuracy or suitability under the actual conditions of any independent use is not guaranteed and must be determined by the user. All advice given about this product is given in good faith. Since as we have no control over conditions of substrate, manufacturer and seller cannot accept any liability in connection with the use of the product relative to coverage, performance, injury, or damage, unless we specify in writing to do so. The information in this data sheet is subject to change without prior notice and it is the user responsibility to ensure it is current. For further information and advice please contact UCC Technical Service Department.