



Propylene Glycol

1,2 Propylene Glycol

Catalog Nr.	Q051
Definition	Propylene glycol, known also by the systematic name propane-1,2-diol, is an organic compound (a diol alcohol), usually a faintly sweet, and colorless clear viscous liquid that is hygroscopic and miscible with water, acetone, and chloroform.
CAS Number	57-55-6
Application	As a solvent in many pharmaceuticals, including oral, injectable and topical formulations. Notably, diazepam, which is insoluble in water, uses propylene glycol as its solvent in its clinical, injectable form.[5] As a moisturizer in medicines, cosmetics, food, toothpaste, mouth wash, and tobacco products In electronic cigarettes to deliver vaporized nicotine As an emulsification agent in Angostura and orange bitters As a solvent for food colors and flavorings As an ingredient, along with wax and gelatin, in the production of paintballs As a humectant food additive, labeled as E number E1520 As a cooling agent for beer and wine glycol jacketed fermentation tanks As a carrier in fragrance oils As an ingredient in massage oils As a less-toxic antifreeze As a solvent used in mixing photographic chemicals, such as film developers In smoke machines to make artificial smoke for use in firefighters' training and theatrical productions In hand sanitizers, antibacterial lotions, and saline solutions In cryonics As a working fluid in hydraulic presses As a coolant in liquid cooling systems

Technical Data

PROPERTIES

Flash point:	99C (210F) CC
Appearance:	Clear oily liquid.
Odor:	Odorless.
Solubility:	Miscible in water.
Specific Gravity:	1.0361 @ 20C/4C
Boiling Point:	188.2C (370F)
Melting Point:	-59C (-74F)
Vapor Density (Air=1):	2.6
Vapor Pressure (mm Hg):	0.129 @ 25C (77F)
Evaporation Rate (BuAc=1):	0.01

Packaging & Handling

UN Number

Class

Packaging Group

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