

Propylene Glycol

HEAT TRANSFER FLUID

DESCRIPTION

Propylene Glycol heat transfer fluid. Propylene Glycol is used:

- 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 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
- To regulate humidity in a cigar [humidor](#)
- As the killing and preserving agent in pitfall traps, usually used to capture [ground beetles](#)
- To treat livestock [ketosis](#)
- As the main ingredient in [deodorant](#) sticks.
- To [de-ice](#) aircraft.^[4]
- UV Blacklite Tattoo Ink

Propylene glycol has properties similar to those of [ethylene glycol](#) (monoethylene glycol, or MEG). (Note: propylene glycol may also use the acronym MEG, but as an abbreviation of methyl ethyl glycol.) The industrial norm is to replace ethylene glycol by propylene glycol.

FEEDING AND CONTROL

Propylene Glycol concentrate must be diluted with water to make a finished solution. The freeze points for various solutions are:

Temperature		Percent Propylene Glycol Conc. Required Freeze Protection Volume %
°C	°F	
-7	20	18
-12	10	27
-18	0	34
-23	-10	41
-29	-20	46
-34	-30	50
-40	-40	54
-46	-50	57
-51	-60	60

Caution: These numbers represent typical values and are not to be regarded as specifications. The manufacturer does not guarantee results from use of the information or products herein; and gives no warranty, express or implied

TYPICAL CHARACTERISTICS

Color.....Clear liquid
 Density.....8.7 lbs./gal.
 Flash Point.....None
 Fragrance.....Typical Glycol
 pH(undiluted).....8.5-10

PACKAGING

Propylene Glycol is packaged in 250 gallon tote tanks, 55, 30 and 15 gallon, non-returnable plastic drums. Other packaging is available on request.