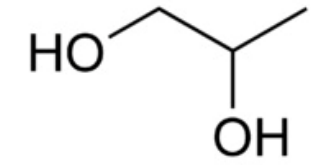
MPG-USP

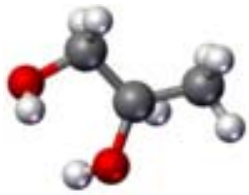
Chemical Formula: $C_3H_8O_2$

CAS Registry Number: 57-55-6

Molecular Weight: 76.09

PRODUCT INFORMATION





Synonyms:

- (.+-.)-1,2-Propanediol
- (.+-.)-Propylene glycol
- (RS)-1,2-Propanediol
- 1,2-(RS)-Propanediol
- 1,2-DIHYDROXYPROPANE
- 1,2-PROPANDIOL
- 1,2-Propanediol
- 1,2-Propylene glycol
- 1,2-PROPYLENEGLYCOL
- 1000PG
- 2,3-Propanediol
- 2: PN: US20050147610 SEQID: 2 claimed protein
- 2-Hydroxypropanol
- Adeka PG
- Adeka Propylene Glycol PG-P
- DL-1,2-Propanediol
- dl-Propylene glycol
- Dowfrost
- Immunoglobulin G1, anti-(human interleukin 18 (human heavy chain constant domain)
- Isopropylene glycol
- Methyl ethylene glycol
- Methylethyl glycol
- Methylethylene glycol
- MONO PROPYLENE GLYCOL
- Monopropylene glycol
- NSC 69860
- PG 12
- PG-T
- PG-T (glycol)
- POLYESTER OF 1,2-PROPANEDIOL

Description

MPG – USP is the US Pharmacopoeia compliant grade of monopropylene glycol (MPG). It is a clear, colourless and practically odourless, hygroscopic liquid, completely soluble in water. MPG – USP is miscible in all proportions with low molecular weight aliphatic alcohols and ketones. It is slightly to moderately soluble in aromatics hydrocarbon solvents and only slightly miscible with aliphatics hydrocarbon solvents.

Typical properties			
Property	**Test Method**	**Unit**	**Value**
Purity by GC	ASTM E-202	% (m/m)	99.5 min
Dipropylene glycol		% (m/m)	0.1 max
Colour	ASTM D1209	Pt-Co	5 max
Water	ASTM E-202; E-203	% (m/m)	0.2 max
Acidity as Acetic Acid	ASTM E-202; D-1613	% (m/m)	0.005 max
Chlorides	USP	ppm	1.0 max
Sulphate	USP	% (m/m)	0.006 max
Iron	ASTM E-202	PPM	1.0 max
Heavy metals as Pb	USP	ppm	5.0 max

Typical properties of the pure product			
Property	**Test Method**	**Unit**	**Value**
Molecular weight			76.094
Density		Kg/m^3	1036
Coefficient of cubic expansion		10-4/°C	6.95
Refractive index			1.4326
Pour point		ºC	-59.5
Boiling point		ºC	187.4
Flash point		ºC	103
Vapour pressure at 20°C		kPa	0.0067
Vapour pressure at 50 ºC		kPa	0.0893
Dynamic viscosity		mPa.s	55
Surface tension at 25ºC		mN/m	38
Specific heat		kJ/kg K	2.48
Latent heat of evaporation		kJ/kg	976.5
Thermal conductivity		W/m K	0.187
Heat of combustion at 25ºC		kJ/kg	23982
Electrical conductivity		µS/m	4.4
Dielectric constant			32.0

All typical physical properties are at 20°C unless stated otherwise.
* The above typical physical properties are published here as a guide to potential users of the product A sales specification is published separately

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Application

MPG – USP is used in a wide range of applications in the pharmaceutical industry, the food industry, tobacco industry and in cosmetics.

Test Methods

ASTM standards are published by the American Society for Testing and Materials at www.astm.org. USP standards are published by the U.S. Pharmacopoeia Inc. at www.usp.org.

Hazard Identification

Low order of acute toxicity by the oral or precutaneous routes. Slightly irritating to the eyes and skin. This product is not in the 'flammable' range, but will burn.

Before handling the product refer to the Safety Data Sheet.

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