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## Technical Information

### 1,2-Propylene Glycol Care

PRD 30061790

Valid since 19.11.2020  
Revision 2.0

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® = registered trademark of BASF in many countries    ™ = Trademark of BASF

**Care Chemicals**

**Low-volatility, water-miscible, odorless solvent of very high purity; particularly suitable for applications in cosmetics**

#### INCI name(s)

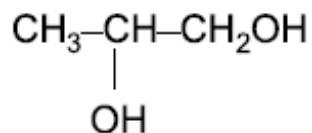
Propylene Glycol

#### Chemical description

1,2-propanediol

#### Physical form:

#### Structural Formula



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**Care Chemicals****Characteristic values**

The specifications stated in the paragraphs 'Quality control data' and 'Additional product descriptive data' finally and conclusively describe the properties of the product.

**Quality control data**

(Data which is used for quality release and is certified for each batch.)

<b>Test property</b>	<b>Specification</b>	<b>Test method</b>
Appearance	clear, colorless liquid	Visual
Identification (IR)	conforms to monograph requirement	USP
Purity (CGC)	min. 99.8 %	PM00488 (USP conform)
Relative density d (20/20)	1.035 - 1.040	PM00379
Relative density d (25/25)	1.035 - 1.037	PM00379
Refractive index n (20/D)	1.431 - 1.433	Ph.Eur.
Water (KF-titration)	max. 0.2 %	Ph.Eur.
Sulfated ash / Residue on ignition	max. 70 ppm	USP/Ph.Eur.
Chloride	max. 70 ppm	PM00621
Sulfate	max. 60 ppm	PM00621
Dimers and Polymers (CGC)	max. 0.1 %	PM00488
1,3-Propanediol (CGC)	max. 100 ppm	PM00488
Organic chlorine compounds as Cl	max. 1 ppm	PM00621
Acidity	conforms to monograph requirement	PM00158
Oxidizing substances	conforms to monograph requirement	Ph.Eur.
Reducing substances	conforms to monograph requirement	Ph.Eur.
Color (Hazen)	max. 10	PM00914
Arsenic *	max. 2 ppm	PM01683
Heavy metals *	max. 5 ppm	PM01683
Identification: Ethylene glycol *	conforms to monograph requirement	PM00637
Identification: Diethylene glycol *	conforms to monograph requirement	PM00637

\* Test is verified on random samples only

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**Care Chemicals****Additional product descriptive data**

(Data which is proven statistically but not determined regularly.)

Test property	Specification	Test method
Arsenic	must conform (max. 2 ppm)	
Heavy metals	must conform (max. 5 ppm)	
Identification: Ethylene glycol	must conform	
Identification: Diethylene glycol	must conform	

**Storage information****Shelf life**

24 months

**Storage conditions**

In original sealed containers and protected from moisture

**Composition hints for finished product label****INCI Components**

INCI Name (US/EU/CN)	Content
Propylene Glycol	Complete *

\* Complete means conclusively describes the substance

**Miscellaneous information**

1,2-Propylene Glycol Care is primarily intended for use as ingredients in personal care applications and conform alone to the analytical specification of the respective pharmaceutical monograph (Ph. Eur. and/or USP).

This is not to be understood as conformance with pharmaceutical or food regulations management system requirements in excess of the analytical specification.



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**Care Chemicals**

### Performance

Propylene Glycol is a clear colorless viscous liquid of low volatility with a boiling range of 184 - 189 °C. It is odorless, neutral and hygroscopic. It is miscible in all proportions with water, lower alcohols, esters and ketones. Propylene Glycol is a germicide of approximately equal strength to ethanol. In solutions it suppresses the growth of microorganisms, the concentration required depending on the species, though generally 15 - 30 % Propylene Glycol in the solution achieves the desired effect.

### Example of use

Propylene Glycol is used

- in the manufacture of mouthwashes, toothpastes, ointments, skin creams, shampoos and perfumes (solutions of the ingredients for these products in Propylene Glycol usually remain clear even when they are highly diluted with water);
- as a preservative in cosmetic products in the form of emulsions;
- as a solvent for fragrances;
- as an extractant for active principles from natural products;
- as a lubricant for machines, e.g. in the cosmetics industry.

### Intended for use as cosmetic ingredient

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