

Please note that the certificates of analysis are also conveniently available on your BASF online portal.

METAEXPORT d.o.o.

2024-05-27

Certificate No 4869

Page 1 of 4

Pancevacki put 68b

Hr. Dr. Florian Wildschek

11000 Beograd

ENT/QA

florian.wildschek@basf.com

SRBIJA

Inspection Certificate 3.1 according to EN 10204

1,2-PROPYLENE GLYCOL USP

Material

52705412

Order

3019982582 000010

Delivery

3198140604 000010

Lot

33938475L0

220KG Plastic drums

Lot/Qty

17600.000 KG

Purchase order/Customer material

Total

17600.000 KG

1

Transport

BG2796TR/BU046BG

Test Parameter	Requirements	UoM	Results
Appearance	clear and colorless liquid		conforms
Identification (IR)	must conform		conforms
Assay 1,2 Propylene glycol (GC)	Min.: 99.8	g/100g	>99.9
Relative density d(20/20)	Min.: 1.035 Max.: 1.040		1.038
Relative density d(25/25)	Min.: 1.035 Max.: 1.037		1.036
Refractive Index n(20/D)	Min.: 1.431 Max.: 1.433		1.433
Acidity	must conform (max. 0.019 mg KOH/ml)		conforms
Water (Karl Fischer-Titration)	Max.: 0.2	g/100g	<0.1
Sulfated Ash / Residue on ignition	Max.: 70	mg/kg	<30
Chloride	Max.: 70	mg/kg	<1

The aforementioned data shall constitute the agreed contractual quality of the product at the time of passing of risk. The data are controlled at regular intervals as part of our quality assurance program. Neither these data nor the properties of product specimens shall imply any legally binding guarantee of certain properties or of fitness for a specific purpose. No liability of ours can be derived therefrom.

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Test Parameter	Requirements	UoM	Results
Sulfate	Max.: 60	mg/kg	<1
Lead *	must conform (max.1mg/kg)		conforms
Oxidizing substances	must conform		conforms
Reducing substances	must conform		conforms
Sum of unspecified impurities	Max.: 0.1	g/100g	<0.1
1,3-Propanediol (CGC)	Max.: 100	mg/kg	<50
Organic chlorine compounds as Cl	Max.: 1	mg/kg	<1
Colour (Hazen)	Max.: 10		<5
Arsenic *	must conform (max.2mg/kg)		conforms
Heavy metals *	must conform (max.5mg/kg)		conforms
Residual solvents **	must comply with the requirements of PhEur 5.4, USP <467> and ICH Q3C		conforms
Identification: Ethylene glycol	must conform		conforms

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Test Parameter	Requirements	UoM	Results
Identification: Diethylene glycol	must conform		conforms
Ethylenglycol (GC)	Max.: 0.1	g/100g	<0.1
Diethylenglycol (GC)	Max.: 0.1	g/100g	<0.1
Distilling range	must conform (99% dest.at 185-189 C)		conforms

* Test is verified on random samples only.

**Not tested, since no organic solvents are likely to be present.

The product meets the specifications of following monographs:

"Propylene Glycol" of USP-NF2023, Issue 1

"Propylenglycole" of European Pharmacopoeia 11th edition

Manufacturer: BASF SE

Carl-Bosch-Str.38

67056 Ludwigshafen

Germany

QC-Reference-No.

24C02783

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Production date (YYYY-MM-DD) 2024-02-23

Release date (YYYY-MM-DD) 2024-02-29

Best before (YYYY-MM-DD) 2026-02-22

BASF SE

Quality Assurance - Release

sig. Fr. Surdmann

QA-Representative

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