

Please note that the certificates of analysis are also conveniently available online and around the clock at www.worldaccount.basf.com

Fax No 00302104827861

OXEAL LTD
Tax No. EL095028774
GENNIMATA AVENUE

19018 MAGOULA ATTIKIS

Greece

2018-05-14
ENO/QA
Hr. Dr. Florian Wildschek
florian.wildschek@basf.com
Certificate No 6229
Page 1 of 3

Certificate of Analysis according to DIN 55350-18-4.1.2

1,2-PROPYLENE GLYCOL USP

220KG Plastic drums
Purchase Order/Customer Product#
tel. order

Material	52705412
Order	3014576681 000010
Delivery	3190270317 000010
Lot	76563347G0
Lot/Qty	8800.000 KG
Total	8800.000 KG
Transport	FSCU3349320

Test Parameter	Requirements	UoM	Results
Appearance	clear and colorless liquid		conforms
Identification (IR)	must conform		conforms
Purity (CGC)	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
Water (Karl Fischer-Titration)	Max.: 0.2	g/100g	<0.1
Sulfated Ash / Residue on ignition	Max.: 70	mg/kg	<10
Chloride	Max.: 70	mg/kg	<1
Sulfate	Max.: 60	mg/kg	<1
Arsenic *	must conform (max.2mg/kg)		conforms

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
Heavy metals *	must conform (max.5mg/kg)		conforms
Dimers and Polymers (CGC)	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
Acidity	must conform (max. 0.019 mg KOH/ml)		conforms
Oxidizing substances	must conform		conforms
Reducing substances	must conform		conforms
Residual solvents **	must comply with the requirements of PhEur 5.4, USP <467> and ICH Q3C		conforms
Colour (Hazen)	Max.: 10		<5
Identification: Ethylene glycol *	must conform		conforms
Identification: Diethylene glycol *	must conform		conforms

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* 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 USP40/NF35,
"Propylenglycole" of European Pharmacopoeia 9th edition

Manufacturer: BASF SE
Carl-Bosch-Str.38
67056 Ludwigshafen
Germany

QC-Reference-No.	18C02649
Production date	(YYYY-MM-DD) 2018-03-15
Release date	(YYYY-MM-DD) 2018-03-19
Best before	(YYYY-MM-DD) 2019-03-15

BASF SE
Quality Assurance - Release
sig. Hr. Frühbeis
QA-Representative

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