

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

Fax No 00302104827861

OXEA LTD

 Tax No. EL095028774
 2018-05-14

 GENNIMATA AVENUE
 ENO/QA

Hr. Dr. Florian Wildschek
19018 MAGOULA ATTIKIS florian.wildschek@basf.com

Certificate No 6229

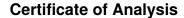
Greece Page 1 of 3

Certificate of Analysis according to DIN 55350-18-4.1.2

1,2-PROPYLENE GLYCOL USP 52705412 Material Order 3014576681 000010 220KG Plastic drums Delivery 3190270317 000010 Purchase Order/Customer Product# Lot 76563347G0 tel. order 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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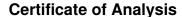
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1,2-PROPYLENE GLYCOL USP 52705412 Material Order 3014576681 000010 220KG Plastic drums Delivery 3190270317 000010 Purchase Order/Customer Product# Lot 76563347G0 tel. order Lot/Qty 8800.000 KG Total 8800.000 KG

| 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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1,2-PROPYLENE GLYCOL USP Material 52705412

220KG Plastic drums Order 3014576681 000010
220KG Plastic drums Delivery 3190270317 000010

 Purchase Order/Customer Product#
 Lot
 76563347G0

 tel. order
 Lot/Qty
 8800.000
 KG

 Total
 8800.000
 KG

Transport FSCU3349320

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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^{*} Test is verified on random samples only.

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