

Fax No 0078770174

OOO BASF

14/3 Kadashevskaya nab

119017 MOSCOW

Russian Fed.

2020-01-28 ENT/OQA

Hr. Dr. Florian Wildschek florian.wildschek@basf.com

Certificate No 4172 Page 5 of 12

Certificate of Analysis according to DIN 55350-18-4.1.2

1,2-PROPYLENE GLYCOL USP

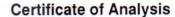
220KG Plastic drums Purchase Order/Customer Product# CPL-Ruskhimset 2020 000000000052705412 Material 52705412 Order 3382898418

Delivery Lot 3382898418 000010 3192713974 000010 78688097V0

Lot/Qty Total Transport 5280.000 KG 17600.000 KG TRHU3973845

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		1.038
	Max.: 1.040		
Relative Density d(25/25)	Min.: 1.035		1.036
	Max.: 1.037		
Refractive Index n(20/D)	Min.: 1.431		1.433
	Max.: 1.433		
Water (Karl	Max.: 0.2	g/100g	<0.1
Fischer-Titration)			
Sulfated Ash / Residue on	Max.: 70	mg/kg	<10
ignition		0, 0	
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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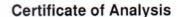
5280.000 KG 17600.000 KG

Transport

TRHU3973845

Test Parameter	Requirements	UoM	Results
Lead *	must conform (max.1mg/kg)		conforms
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

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220KG Plastic drums
Purchase Order/Customer Product#

CPL-Ruskhimset 2020 0000000000052705412

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Lot/Qty Total 78688097V0 5280.000 KG

Transport

17600.000 KG TRHU3973845

Test Parameter	Requirements	UoM	Results
Identification: Diethylene	must conform		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 USP42/NF37,

"Propylenglycole" of European Pharmacopoeia 9th edition

Manufacturer: BASF SE

Carl-Bosch-Str.38 67056 Ludwigshafen

Germany

QC-Reference-No.

19007804

Production date

(YYYY-MM-DD) 2019-06-23

Release date

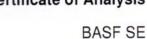
(YYYY-MM-DD) 2019-06-27

Best before

(YYYY-MM-DD) 2020-06-22

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Lot Lot/Qty Total

5280.000 KG 17600.000 KG

Transport

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

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