INEOS

Certificate

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test report 2.2 according to EN 10204/dispatch advice

INEOS Manufacturing Deutschland GmbH Alte Strasse 201

50769 Köln

CUSTOMER COLLECTION # RUSSIA ZUR VERFUEGUNG LUERCHEM LLC

RUS-0 RUSSIA

Product: Monopropylene Glycol USP/EP PharmaGrade

Sales Office-no 0000723987 000010 **ООО АКРИХИМФАРМ** +7 (495) 783-91-69 +7 (495) 504-62-46

akrihim@mail.ru akrihimfarm@mail.ru

test*)	specification				
	unit	result	min	max	test method
Monopropylene glycol	%wt .	99,95	99,5		3002-0212801-0SD
Dipropylene glycol	% wt .	0,0498		0,1000	3002-0212801-0SD
Monoethylene glycol	%wt .	N.N.		0,1000	3002-0212801-0SD
Diethylene glycol	%wt.	N.N.		0,1000	3002-0212801-0BD
Water	%wt .	0,005		0,2	3002-0300102-090
APHA colour value		2		10	3002-0600903-130
Turbidity	NTU	N.N.		3	3002-0606602-12D
Specific gravity at 25 °C		1,0354	1,0350	1,0370	3002-0301205-14D
Refractive index	nD20°C	1,4329	1,4310	1,4330	3002-0601003-13D
Neutralisation number calc. as KOH	mg/g	0,0011		0,0100	3002-0304601-13D
Acidity (calculated as CH3COOH)	% wt.	0,0006		0,0020	3002-0304601-13D
Sulphated ash	mg/kg	N.N.		70	3002-0100308-12D
Chloride	mg/kg	<0,5		1,0	3002- 0305601-13D
Sulphate	mg/kg	0,2		60,0	3002-0400804-14D
Distillation Range	°C	compliance	185 ,0	189,0	3002-0301404-12D
Oxidising substances	TCIR	compliance		Iama	3002-0102302-98D
Reducing substances		compliance			3002-0102402-98D
Volatile organic substances		compliance			3002-0206703-01D
Heavy metals	mg/kg	compliance		5	3002- 0102204-11D
Iron	mg/kg	0,13		0,5	3002-0602003-13D
^Arsenic	mg/kg	N.N.		2,0	3002-0601603-05D
^Lead	mg/kg	N.N.		1	3002- 0602904-13D
^Cadmium	mg/kg	N.N.		0,50	3002-0604803-13D
^Mercury	mg/kg	N.N.		0,10	3002-0606405-15D

N.N. =value below quantitation limit

This certificate has been prepared with care and to the best of our knowledge as part of the quality management system of INEOS Manufacturing Deutschland GmbH, Werk Köln. However, it does not relieve our customers of their obligation to inspect goods upon receipt or establish any warranties of third parties, to whom it might be passed on. No additional assurance of any kind, expressed or implied, is linked here to.

^{*)} tested by: ATS-Analytics of the INEOS Manufacturing Deutschland GmbH

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CUSTOMER COLLECTION # RUSSIA ZUR VERFUEGUNG LUERCHEM LLC ***

RUS-0 RUSSIA

Product: Monopropylene Glycol USP/EP PharmaGrade Netweight

Sales Office-no 0000723987 000010

'Values are quarterly updated.

This product meets the requirements of USP, EP and FCC. Expiry Date: 2 years

This certificate was produced by using an edp-equipment and therefore is issued unsigned.

Weight measurements from Enterprise Resource Planning (SAP). These calibrated measurements can be reviewed by the receiver.

For any questions please contact the customer service center $% \left(1\right) =\left(1\right) \left(1\right)$

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Производство и продажа химии