ConnectingChemistry



BRENNTAG MID SOUTH, INC.

1405 Highway 136 West Henderson, Kentucky 42420-0020 Tel. (270) 830-1200 • Fax (270) 826-1486

CERTIFICATE OF ANALYSIS

Connecting

GLYCERINE 99.7% USP KOSHER

YNTAG

			`	***
CUSTOMER:		LOT NUMBER: 164093677362151		
to for the grade of the control of t		DATE ANALYZED: 12/29/2017		
*DATE MANUFACTURED: 12/28/2017		*EXPIRATION DATE: 12/28/2019		
				:
PARAMETERS	ANALY	SIS	S	PECIFICATIONS
Identification by IR	PASS	;		Pass/Fail
Color	PASS	;	Clear, coi	orless with no suspended matte
Specific gravity @ 25°C (77°F)	1.2614	4		1.2612 min
INCOMING PRODUCT INFORMATIC	N (VENDOR	AND C	ARRIER)	10 May 1 May 1
VENDOR: ADM		CARRIER: ADM		. 72617
VENDOR LOT NUMBER: 171228011		VEHICLE NUMBER		
Maria Maria di				<u> </u>
Analyst: BEN PERRY		<u>Appro</u>	ved: GEI	NE RIXFORD
cc: With Shipment			, `	10A1UNG
Lab File				res/Fail
comment of the control of the contro				di di si si speciale di matte
Attachment: Vendor COA				51° m. A. 2002 11
Direct-questions concerning certification of this	product to perso	onnel at	the location n	arked below.
The state of the s	lando, FL 407-85	7-9310	□ St. L	ouis, MO = Soper 314-832-5010
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Duffiam NC 919-596-0681			· 5 -	1908619
A Name of the state of the stat		.,,		
Affinitornation provided is believed to be accurate and to the lot number indicated. This certificate of analysis	may not include all a	of the cons	stituents of the p	roduct Persons as incuthis information show
nake their bwin determination regarding its suitability for reclude the operation and effect of the applicable terms	r their particular app	lication. T	his certificate of	analysis shall not in any way limit or
resides in a philatelliant circle of the applicable terms	and conditions of Sa	ue.		. โก จ การเกา
ATT STREET OF THE STREET			Form App	proval: <u>James Olements</u> Form Approval Date: August 15, 20
Samuel Control of the			•	Form Approvar Date: August 15, 20
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1				400 USE A H-812-5010
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				有效的基础

IMPORTANT: All information provided is believed to be accurate and complete. The data provided is representative of the product quality on the date of analysis for the lot number indicated. This certificate of analysis may not include all of the constituents of the product. Persons using this information should make their own determination regarding its suitability for their particular application. This certificate of analysis shall not in any way limit or preclude the operation and effect of the applicable terms and conditions of sale.



ARCHER DANIELS MIDLAND 4666 Faries Pkwy., Decatur, IL 62526

ADM Technical Services P: 800.238.9026

CERTIFICATE OF ANALYSIS

USP-NF Glycerin -- Excipient/Food Use Only ADM PRODUCT CODE: 051000

This Certificate of Analysis is valid only for the shipment as described in the shipment information shown below.

SHIPPED TO:

612695

BRENNTAG MID-SOUTH

139 E SOPER ST

SAINT LOUIS, MO 63111-2931

UNITED STATES

LOT NUMBER:

164093677362151

Shipment Information

ADM ORDER #:

592958

VESSEL NUMBER: ADMO16085

LOAD/MFG DATE: 12/28/2017

CORDNO:

758828

LOT CODE:

171228011

SHIP DATE:

12/28/17

WGT/QUANTITY: 47654.83

Product Analysis

Test, Units	Limit	Result	
Glycerin %	99.7 min	100.0	
Specific Gravity @ 25/25C	1.259 min.	1.262	
Water, wt%	0.3 max.	0.1	
Color, Pt-Co.	10 max.	Pass	
Odor	Pass	Pass	
Appearance	Pass	Pass	
Identification A (IR)	Pass	Pass	
Identification B (limit of DEG & EG), wt%	Pass	Pass	
Identification C (GC)	Pass	Pass	
Readily Carbonizable Substances	Pass	Pass	
Related Compounds,		. 400	
Individual Impurities, wt%	0.1 max.	Pass	
Total Impurities, wt%	1.0 max.	Pass	
Chloride, wt%	0.001 max.	Pass	
Sulfate, wt%	0.002 max.	Pass	
Chlorinated Compounds, wt%	0.003 max.	Pass	
Fatty Acids & Esters (ml 0.5N NaOH)	1 max.	Pass	
Lead, ppm	1 max.	Pass	
Residue on Ignition, wt% *	0.01 max.	Pass	
Heavy Metals as Lead *	5 ppm	Pass	

Analyses in bold are performed on loaded vessel after release. Results from the vessel are used for verification of the source tank data.

CERTIFIED BY: Suzanne Grayson-Moss, Quality Control Superintendent

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^{*}Results Guarantee; tested periodically in accordance with current USP