

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

BMS-VENDOR 100693

CERTIFICATE OF ANALYSIS

GLYCERINE 99.7%
USP KOSHER

OW-466135-PIBC

CUSTOMER: PO#		LOT NUMBER: 466135377279
CODE:	B/L#	DATE ANALYZED: 10/10/2017

PARAMETERS	ANALYSIS	SPECIFICATIONS
Identification by IR	Pass	Pass/Fail
Color, Pt-Co <10	Clear/colorless	Clear, colorless with no suspended matter
Specific gravity @ 25°C (77°F)	1.2614	1.2613 Minimum

INCOMING PRODUCT INFORMATION (VENDOR AND CARRIER)	
BMS PO#741388 VENDOR:-LOUIS DREYFUS	CARRIER: PAR TRUCKING
LD LOT NUMBER:17100-365	VEHICLE/TANKER NUMBER: 1431

Analyst: AZIM SUMAR	Approved: KENNETH SAUMENIG
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cc: With Shipment
 Lab File

MFG. DATE: 09-29-17
 EXP. DATE : 09-29-19

Attachment: BMS / ORIGINAL COA

Direct questions concerning certification of this product to personnel at the location marked below.

 Kennesaw, GA 770-429-1405 Orlando, FL 407-857-9310FORM APPROVAL: JAMES CLEMENTS

Form Approval Date: AUGUST 15, 2016

C:\RD1\WORD\COA\GLYCERINE 99.7% KOSHER

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.

B - 48576
V - 166328

LDC.

Louis Dreyfus Company

Certificate of Analysis
USP Food Grade Glycerin
Kosher & Halal

CUSTOMER _____
PO # _____
CODE # _____
LOT # 466135377279
BOL # _____

Bms Pct# 741388

Lot Number: 17100-365

Manufactured Date: 9/29/17

Property	Method	Specifications	Results
Appearance	USP	Transparent (free of particle and colorless)	Pass
Purity by specific gravity	USP	Min. 99.7%	99.75
Specific Gravity @ 25 deg C	USP	Min. 1.2613	1.2614
Identification A by FTIR	USP	Pass	Pass
Identification B	USP	Pass	Pass
Diethylene Glycol	USP	<0.10%	<0.10
Ethylene Glycol	USP	<0.10%	<0.10
Identity C (Confirmation of Glycerin by GC)	USP	Pass	Pass
Related Compounds - Individual	USP	Max 0.10%	<0.1
Related Compounds - Total	USP	Max 1.0%	<1.0
Assay (Anhydrous Basis)	USP	99.00% - 101.00%	99.22
Sulfate	USP	Max 20 ppm	<20
Chloride	USP	Max 10 ppm	<10
Chlorinated Compounds	USP	Max 30 ppm	<30
Fatty Acid & Ester	USP	Max 0.30 mL consumed	0.18
Heavy Metals (as Pb which is lead)	USP	Max 5 ppm	<5
Lead	USP	Max 1 ppm	<1
Residue on Ignition	USP	Max 0.01%	<0.01
Color, APHA	USP	Max 10	1
Readily Carbonizable Substances		Pass	Pass
Water	USP	Max 0.30%	0.0747
Odor		Pass	Pass
Residual Solvents	USP	Pass	Pass

8 PBC OW

<p>Sydney Geisler - Lab Technician</p>	<p>Digitally signed by Sydney Geisler - Lab Technician Date: 2017.09.30 09:31:19 -04'00'</p>
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