

Sample COA, please contact Duda Energy for current COA

Duda Eneergy LLC
1112 Brooks St
Decatur, AL 35601
256-340-4866

CERTIFICATE OF ANALYSIS

GLYCERINE 99.7% USP KOSHER

CUSTOMER: Duda Energy LLC	LOT NUMBER: 164093673290151
	DATE ANALYZED: 10/18/2013

PARAMETERS	ANALYSIS	SPECIFICATIONS
Identification by IR	PASS	Pass/Fail
Color	PASS	Clear, colorless with no suspended matter
Specific gravity @ 25°C (77°F)	1.2612	1.2612 min

INCOMING PRODUCT INFORMATION (VENDER AND CARRIER)	
VENDER: ADM	CARRIER: ADM
VENDER LOT NUMBER: 131016054	VEHICLE NUMBER: 003043

Analyst: ANGELA SCATURRO	Approved: GENE RIXFORD
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cc: With Shipment
Lab File

Attachment: Vender COA

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

Kennesaw, GA 770-429-1405 Orlando, FL 407-857-9310 St. Louis – Soper 314-832-5010

"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."

Form Approval: James Clemets
Form Approval Date: 5/15/13

C:\RD1\WORD\COA\GLYCERINE 997% KOSHER



LOT NUMBER:

164093673290151

CERTIFICATE OF ANALYSIS

051000 - USP Glycerin (Excipient), 99.7%, Kosher, FCC Grade

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

Shipment Information

PRODUCT CODE: 051000
VESSEL NUMBER: 003043
DATE LOADED: 10/16/13
ADM ORDER NUMBER: 399982
ADM LOT NUMBER: 131016054 ST LOUIS, MO 63111
MANUFACTURE DATE: 10-2013 UNITED STATES
CUSTOMER ORDER #: 452388 QUANTITY: 47600
CUSTOMER REF #:

Product Analysis

Test, Units	Limit	Result
Assay, wt%	99.0 - 101.0	Pass
Glycerin %	99.7 min	99.7
Specific Gravity @ 25/25C	1.249 min.	1.2615
Water, wt%	0.3 max.	0.14
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,		
Individual Impurities, wt%	0.1 max.	Pass
Total Impurities, wt%	1.0 max.	Pass
Residue on Ignition, wt%	0.01 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
Heavy Metals, ppm	5 max.	Pass
Lead, ppm	1 max.	Pass

Analyses in bold are performed on loaded vessel. Additional analyses are performed on source tank.