

Natural Oleochemicals Sdn Bhd (150005-U)



CERTIFICATE OF ANALYSIS

LAB REQUEST ID

510000269013

PRODUCT

COMMODITY: REFINED GLYCERINE 99.7% USP GRADE

QUANTITY, MTS

20 MTS OR 80 DRUMS

CONTAINER & SEAL NO

SITU 2759945 / SITZ 678874

LOT NO

G230515-3N

Parameter Name	Unit	Result	Specification	Test Method
Assay	%	99.9	99.0 - 101.0	USP-NF 2022
Chloride	ppm	<10	10 max	USP-NF 2022
Chlorinated Compound	ppm	<30	30 Max	USP-NF 2022
Colour	ml FeCl3/50ml	<0.4	0.40 Max	USP-NF 2022
Fatty Acid & Esters	ml of 0.5N NaOH	0.3	1.0 MAX	USP-NF 2022
Glycerol Content	%	99.9	99.5 MIN	USP-NF 2022
Identification A (IR)	-	CONFORM	Conform	USP-NF 2022
Identification C (GC)	-	CONFORM	Conform	USP-NF 2022
Residue on Ignition	%	<0.01	0.01 Max	USP-NF 2022
Residue on Ignition (800±25 deg C)	%	<0.01	0.01 Max	USP-NF 2022
Specific Gravity (25/25)	-	1.2617	1.2612 MIN	USP-NF 2022
Sulphate	ppm	<20	20 max	USP-NF 2022
Water	%	0.03	5.00 MAX	USP-NF 2022
Diethylene Glycol	%	<0.1	0.10 MAX	USP-NF 2022
Ethylene Glycol	%	<0.1	0.10 max	USP-NF 2022
Individual Impurities	%	<0.1	0.1 Max	USP-NF 2022
Total Impurities	%	<1.0	1.0 Max	USP-NF 2022
Acidity	ml of 0.1M NaOH	0.06	0.30 MAX	BP 2021
Acrolein, Glucose and Ammonium Compounds	-	PASS	Not Yellow and No Ammonical Odour	APAG-GL-011:1988
Appearance	-	TRANSPARENT	Transparent	Visual
Arsenic (as As2O3)	ppm	<0.1	4 MAX	ICPMS
Ash	%	<0.01	0.01 MAX	AOCS Tm 1a-64 : 2017
Colour	APHA	5	6 MAX	AOCS Ea 9-65:2017