



Certificate of Analysis

Product	GLYCERIN USP 99.7%
Lot #	J34526F28295
Manufacturing Date	June 2021
Shelf Life	5 years

Properties	Specifications	Results
Appearance @ 25 Degrees C	Clear Viscous Liquid	Pass
Identification tests A, B & C	To Meet Requirements	Pass
Assay, %	99.0 - 101.0	99.9
Chlorides, ppm	10.0 Maximum	6.0
Sulfates, ppm	20.0 Maximum	0.0
Heavy Metals, ppm	5.0 Maximum	<5.0
Residue on Ignition, %	0.01 Maximum	<0.01
Individual Organic Impurities, %	0.1 Maximum	<0.1
Total Organic Impurities, %	1.0 Maximum	<1.0
Fatty Acids & Esters (as ml of 0.5N NaOH)	1.0 Maximum	0.0
Chlorinated Compounds	20.0 ppm Maximum	<20.0
Color (APHA)	10.0 Maximum	1.0
Specific Gravity @ 25 °C	1.2490 Maximum	1.2533
Moisture % (KF)	5.0 Maximum	0.05

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Certificate of Analysis

Product	GLYCERIN USP 99.7%
Lot #	2007064
Shelf Life	3 years

Properties	Specifications	Results
Glycerine Content	Min 99.5	99.9
Identification A (IR)	Conforms	Conforms
Identification B (GC)	Conforms	Conforms
Specific Gravity 25/25 °C	Min 1.249	1.2617
Chloride	Max 10	Conforms
Sulfates	Max 20	Conforms
Heavy Metals	Max 5	Conforms
Chlorinated Compound	Max30	Conforms
Organic Volatile Impurities		Conforms
Fatty Acid & Esters	Max 1	0.3
Moisture	Max 5	0.06
Residue on Ignition	Max 0.01	Conforms
Color		Conforms

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Certificate of Analysis

Product GLYCERIN USP 99.7%
Lot # J34525D10196
Shelf Life 5 years

Properties	Specifications	Results
Appearance @ 25 Degrees C	Clear Viscous Liquid	Pass
Identification tests A, B & C	To Meet Requirements	Pass
Assay, %	99.0 - 101.0	99.9
Chlorides, ppm	10.0 Maximum	0.0
Sulfates, ppm	20.0 Maximum	2.0
Heavy Metals, ppm	5.0 Maximum	<5.0
Residue on Ignition, %	0.01 Maximum	<0.01
Individual Organic Impurities, %	0.1 Maximum	<0.1
Total Organic Impurities, %	1.0 Maximum	<1.0
Fatty Acids & Esters (as ml of 0.5N NaOH)	1.0 Maximum	0.1
Chlorinated Compounds	20.0 ppm Maximum	<20.0
Color (APHA)	10.0 Maximum	2.0
Specific Gravity @ 25 Degrees C	1.2490 Maximum	1.2616
Water, %	5.0 Maximum	0.1

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Certificate of Analysis

Product	GLYCERIN USP 99.7%
Lot #	200652
Shelf Life	2 years

Properties	Specifications	Results
Characters/Appearance	Clear colorless Liquid	Pass
Assay %	99.5 min	99.8
Fatty Acids & Esters (ml 0.5M NaOH/50g)	1.0 max	0.2
Colour (APHA)	10 max	2.5
Chlorides (ppm Cl)	10 max	<10
Sulphate (ppm)	20 max	<20
Water %	0.5 max	0.08
Residue on ignition %	0.01 max	<0.01
Identification A (Infra red Adsorption)	Pass	Pass
Diethylene Glycol (wt%)	0.1 Max	<0.1
Ethylene Glycol (wt%)	0.1 max	<0.1
Identification C (Choromatography)	Pass	Pass
Individual impurities (wt%)	0.1 max	<0.1
Total impurities (wt%)	1.0 max	<1.0
Chlorinated compounds (ppm Cl)	30 max	<30
Heavy Metal (ppm Pb)	5 max	<5.0
Specific Gravity at 25/25 °C	1.2612 min	1.2618
Refractive Index at 20 °C	1.470 – 1.475	1.4738
Odour	Typical Odour	Pass

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Certificate of Analysis

Product	GLYCERIN USP 99.7%
Lot #	288F140619
Shelf Life	2 years

Properties	Specifications	Results
Appearance	Clear	Clear
Glycerol Content % wt	99.7 Min	99.9
Color (APHA)	10 Max	2
Specific Gravity 25°C	1.2610 Min	1.2616
Water Content % wt	0.3 Max	0.058
Chloride ppm	10 Max	< 10
Sulfate ppm	20 Max	< 20
Heavy Metals (as Pb) ppm	5 Max	< 5
Fatty Acid & Esters mL 0.5N NaOH	1.0 Max	0.2
Diethylene Glycol % wt	0.1 Max	< 0.1
Ethylene Glycol % wt	0.1 Max	< 0.1
Identification A	Pass	Pass
Identification C	Pass	Pass
Residue on ignition % wt	0.01 Max	< 0.01
Limit of chlorinated compound ppm of Cl	30 Max	< 30
Individual impurities % wt	0.1 Max	< 0.1
Total impurities % wt	1.0 Max	< 1.0
Organic volatile impurity	Pass	Pass
Readily carburizable substances	Pass	Pass
Arsenic ppm	1.5 Max	Not Detected
Lead ppm	1 Max	Not Detected
Refractive index at 20 °C	1.470 Max	1.4742
Acidity or alkalinity mL 0.1N NaOH	0.2 Max	< 0.2
Ammonium	Pass	Pass
Calcium	Pass	Pass
Reducing substances	Pass	Pass
Aldehyde ppm	10 Max	< 5
Ester mL 0.1N HCl	Not less than 8.0	> 8
Halogenated compound ppm	35 Max	< 35
Sugar	Pass	Pass
Butanethiols % wt	0.2 Max	< 0.2

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