

Certificate of Analysis

(Representative Sample Certificate)

Product Name: Glycerin, USP
INCI Name: Glycerin
CAS Number: 56-81-5
Lot Number: Not available (data may vary slightly with different lots or batches)
Expiration Date: 24 months from production date

Property	Specification	Analysis
Appearance	PASS	PASS
Purity by Specific Gravity	99.7% MIN	99.71
Specific Gravity @ 25° C	1.2613 MIN	1.2613
Identification A by FTIR	PASS	PASS
Identification B	PASS	PASS
Diethylene Glycol	0.10% MAX	<0.10
Ethylene Glycol	0.10% MAX	<0.10
Identification C	PASS	PASS
Related Compounds - Individual	0.1% MAX	<0.1
Related Compounds - Total	1.0% MAX	<1.0
Assay (Anhydrous Basis)	99.0 - 101.0%	99.84
Sulfates	20 ppm MAX	<20
Chlorides	10 ppm MAX	<10
Chlorinated Compounds	30 ppm MAX	<30
Fatty Acids & Esters	MAX 0.30ml NaOH	0.11
Heavy Metals	5 ppm MAX	<5
Lead	1 ppm MAX	<1
Residue on Ignition	0.01% MAX	0.000
Color (APHA)	10 APHA MAX	0
Readily Carbonizable Substances	PASS	PASS
Moisture	0.30% MAX	0.10
Odor	PASS	PASS
Residue Solvents	PASS	PASS

The above data was obtained using the test indicated and is subject to the deviation inherent in the test method. Results may vary under other test methods or conditions. This report is not to be signed. All data are as per our supplier.

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