

CERTIFICATE OF ANALYSIS

COA No. : COA-2111044
 Product Name : Refined Glycerine (Sinar-GL997)
 Product Form : Liquid
 Batch No. : B01J24FBE4 Packing : In 250KG Steel Drums Without Pallet
 SO No. : 2110000951
 Container No. : REGU 3267154 REGU 3303457 SEGU 1098009 TEMU 5280907

PARAMETER	UNIT	SPECIFICATION	RESULT	METHOD
Appearance@30C		Clear	Clear	Visual
Identification A		Pass	PASS	USP 41
Identification C		Pass	PASS	USP 41
Specific Gravity	@ 25°C/25°C	1.2613 Min	1.2618	USP 41
Identification B				
Ethylen Glycol	%	0.1 Max	< 0.1	USP 41
Diethylen Glycol	%	0.1 Max	< 0.1	USP 41
Related Comp				
Individual Impurity	%	0.1 Max	< 0.1	USP 41
Total Impurity	%	1.0 Max	< 1.0	USP 41
Glycerine Content	%	99.7 Min	99.85	ESM-TM-QC-003
Moisture	%	0.3 Max	0.06	ISO 760
Residue On Ignite	%	0.01 Max	0.0034	USP 41
Assay	%	99-101	99.86	USP 41
Chlorides	ppm	10 Max	< 10	USP 41
Sulphates	ppm	20 Max	< 20	USP 41
Chlorinated Compounds	ppm	30 Max	< 30	USP 41
Fatty Acid & Ester	0.5 N NaOH/100 gr	0.5 Max	0.25	USP 41
Color	APHA	10 Max	2.5	ASTM D1209

We hereby certify the analysis of the sample as shown above

QC Dept PT Energi Sejahtera Mas



REZA FAZRAWI (CHEMIST)

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