



**CERTIFICATE OF ANALYSIS**

QUANTITY/COMMODITY : 40 MT (160 DRUMS)  
GLYCERINE - USP/KOSHER 99.7% MIN

PACKING : IN 250KG NEW LINED STEEL DRUMS PALLETIZED

CONTAINER / BATCH NO : ECMU1910677 (G130923-2); ECMU1578937 (G130926-1)

PRODUCTION DATE : SEPTEMBER 23,26, 2013

EXPIRY DATE : SEPTEMBER 23,26, 2014

VESSEL : STADT AACHEN V.307N / CMA CGM NEW JERSEY V.PG875E

BUYER PO NUMBER PD082313

A COMPOSITE SAMPLE WAS DRAWN FROM THE ABOVE-MENTIONED CONSIGNMENT FOR ANALYSIS. ON ANALYSIS THE FOLLOWING RESULTS WERE OBTAINED :

<u>Parameter</u>	<u>Unit</u>	<u>Result</u>	<u>Specification</u>	<u>Test Method</u>
Appearance		Transparent	Transparent	Visual
Identification A (IR)		Conform	Conform	USP 36 : 2013 (197F)
Identification B				
- Diethylene Glycol	%	<0.10	0.10 max	USP 36: 2013
- Ethylene Glycol	%	<0.10	0.10 max	USP 36: 2013
Glycerine Content	%	99.8	99.7 min	USP 36 : 2013
Inorganic Impurities :				
- Chloride	ppm	<10	10 max	USP 36: 2013 (221)
- Sulfate	ppm	<20	20 max	USP 36: 2013 (221)
- Heavy Metal as Pb	ppm	< 5	5 max	USP 36: 2013 (231)
- Residue on Ignition	%	0.007	0.01 max	USP 36: 2013 (281)
Organic Impurities :				
- Related Compounds				
- Individual Impurities	%	NIL	0.10 max	USP 36: 2013
- Total Impurities	%	NIL	1.0 max	USP 36: 2013
- Chlorinated Compounds	ppm	<30	30 max	USP 36: 2013
Fatty Acids & Esters (as mL of 0.5N NaOH/50 g)		0.24	1 max	USP 36: 2013
Color	mL FeCl3	< 0.4	0.4 max	USP 36: 2013
Specific Gravity @ 25		1.2614	1.2607 min	USP 36: 2013 (841)
Moisture Content	%	0.10	0.3 max	USP 36: 2013 (921)