



CERTIFICATE OF ANALYSIS

CONSIGNEE :
 BRAHM ARPAN PVT. LTD.
 NEW DELHI (INDIA)
 WWW.OILBASEINDIA.COM

INVOICE NO. : OIL/DEC/0009/2013
 DATE : 09-DEC-2013

DESCRIPTION : COVERING SHIPMENT OF GLYCERINE-ORGANIC
 QUANTITY 19.000 MTS packed in 250 kg HDPE Drums.
 BATCH NO. : 122013400039

TEST	RESULT	SPECIFICATION
Glycerine content %	99.89	99.5 MIN
Specific gravity, 25/25'C	1.2616	1.2612 MIN
Colour, APHA	< 10	10 MAX
Identification TEST A	PASSED	PASSES USP 34
Identification TEST B		
Diethylene glycol, %	< 0.01	0.1 MAX
Eyethylene glycol, %	< 0.01	0.1 MAX
Identification TEST DEG. C	PASSED	PASSES USP 33
Residue on Ignition, %	<0.01	0.01 MAX
Water, %	0.05	0.03 MAX
Chloride, ppm	< 10	10 MAX
Sulphates, ppm	< 20	20 MAX
Heavy metals, ppm	< 5	5 MAX
Limit of chlorinated compounds, ppm	< 30	30 MAX
Fatty acid & esters, ml 0.5NaOH	0.3	1.0 MAX
Related compounds (Individual Impurities), ppm	< 0.1	0.1 MAX
Related compounds (Total Impurities), ppm	< 1.0	1.0 MAX
Assay, Anhydrous Basis %	99.8	99.0-101.0
Refractive Index	1.473	1.470-1.475
Aldehyde	PASSED	Color is equal or lower than treated standard
Esters	8.9	8.0 MIN
Sugars	PASSED	Solution remains blue and no predipitate is formed
Arsenic, ppm	< 0.02	2 MAX

MANUFACTURING DATE : 09-DEC-2013

EXPIRY DATE : 08-DEC-2015