



CERTIFICATE OF ANALYSIS

TEST	UNIT	METHOD	RESULTS	SPECIFICATION
GLYCERINE CONTENT	%	USP 37	99.9	99.5 MIN
SPECIFIC GRAVITY	25/25°C	USP 37	1.2678	1.2612 MIN
COLOUR	APHA	LICO	5~6	10 MAX
IDENTIFICATION (TEST A)		USP 37	PASSED	PASSED USP 37
IDENTIFICATION (TEST B)		USP 37	PASSED	PASSES USP 37
-DIETHYLENE GLYCOL	%	USP 37	<0.01	0.1 MAX
ETHYLENE GLYCOL	%	USP 37	<0.01	0.1 MAX
IDENTIFICATION (TEST C)		USP 37	PASSED	PASSES USP 37
RESIDUE ON IGNITION	%	USP 37	<0.01	0.01 MAX
WATER	%	USP 37	0.05	0.3 MAX
CHLORIDE	PPM	USP 37	<10	10 MAX
SULPHATES	PPM	USP 37	<20	20 MAX
HEAVY METAL	PPM	USP 37	<5	5 MAX
LIMIT OF CHLORINATED COMPOUNDS	PPM	USP 37	<30	30 MAX
FATTY ACID & ESTERS	(ML 0.5N NaOH)	USP 37	0.3	1.0 MAX
RELATED COMPOUNDS (INDIVIDUAL IMPURITY)	%	USP 37	<0.1	0.1 MAX
RELATED COMPOUNDS (TOTAL IMPURITIES)	%	USP 37	<1.0	1 MAX
ASSAY, ANHYDROUS BASIS	%	USP 37	99.9	99.0 - 101.0
REFRACTIVE INDEX		REFRACTOMETER	1.475	1.470 - 1.475
ALDEHYDE		USP 37	PASSED	REPORT
ESTERS	0.1 M HCL	USP 37	9.2	8.0 MIN
SUGARS		EP/BP	PASSED	REPORT
ALDEHYDE & GLUCOSE			PASSED	REPORT
ARSENIC	PPM	USP	<0.02	2 MAX
PRODUCT: REFINED GLYCERINE USP 99.7% MANUFACTURING DATE : OCT-2017 EXPIRY DATE : OCT-2020				
*FINAL DESTINATION : ICD TUGHLAKABAD, NEW DELHI , INDIA				

THIS IS TO CONFIRM THE MINIMUM PURITY AS 99.5 PCT GLYCEROL CONTENTS
AND CLEAR VISCOUS LIQUID ODOURLESS COMPLYING TO USP 37 GRADE

For OLEOCHEM INTERNATIONAL Sdn Bhd