

CERTIFICATE OF ANALYSIS

NAME OF PRODUCT : GLYCERIN IP	LICENCE NO.: KD-40
BATCH NO. : IP/00610519/29	TOTAL QTY. : 1156 Kg.
MFG. DATE : MAY 2019	LAB ID : PHFP/1920/056
EXP. DATE : APRIL 2021	ANALYSIS DATE : 07.05.2019

<u>TEST</u>	<u>ATTRIBUTE</u>	<u>ACTUAL</u>
Description	A clear, colourless or almost colourless, syrupy liquid, odourless; very hygroscopic.	Complies.
Solubility	Miscible with water and with ethanol (95%). Slightly soluble in acetone; practically insoluble in ether and in fixed oils.	Complies.
Identification	A) Infrared absorption Spectrophotometry-Conform B) Refractive index : 1.470 to 1.475 at 20°	Complies. 1.473
Appearance of solution	50% solution in water is clear and 20% solution in water is colourless	Complies.
Acidity or alkalinity	Not more than 0.2 ml of 0.1 M sodium hydroxide.	0.08 ml of 0.1M NaOH
Heavy metals	Max. 5 ppm	< 5 ppm
Iron	Max. 4 ppm	< 4 ppm
Chlorides	Max. 25 ppm	< 25 ppm
Sulphates	Max. 30 ppm	< 30 ppm
Aldehydes and reducing substances	To pass the test.	Complies.
Ester	Not less than 8.0 ml of 0.1 M hydrochloric acid.	8.5 ml of 0.1M HCl.
Ethylene glycol, diethylene glycol and related substance	To pass the test.	Complies.
Sugars	To pass the test.	Complies.
Sulphated ash	Max. 0.01%	0.008%
Water	Max. 2.0%	0.26%
Assay	NLT 98.0% - NMT 101.0%	98.97%
(Calculated on the anhydrous basis)		

THE ABOVE BATCH MATERIAL COMPLIES WITH THE PRESCRIBED QUALITY OF IP STANDARD.

This product is manufactured at our manufacturing unit no. 1 (Boisar).

CODE NO. : 20118IP

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MANAGER (QC)

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QUALITY CONTROL DEPARTMENT