

Certificate of Analysis - B.P. Glycerine.

Batch no: 16/03/2016.

Characteristics	A syrupy liquid, unctuous to touch, colourless or almost colourless, clear and very hygroscopic.
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First identification	A, B.
Second identification	A, C, D.
Identification	A. It complies with test for refractive index. B. It complies with IR absorption spectrum. C. Blue colour does not diffuse into lower layer. D. Blackens filter paper with alkaline potassium tetraiodomercurate sol.
Solubility	i. Miscible with water and 96% ethanol. ii. Slightly soluble in acetone. iii. Insoluble in ether, chloroform and in fixed and essential oils.
Key to table	NMT: Not more than. NLT: Not less than.

Analysis	Specification	RESULT
Glycerol content	98.0% - 101.0%, typical 99.5%	99,78%
Acidity	NMT 0.2ml of 0.1M NaOH	0.09ml
Appearance of solution	Solution is clear and colourless.	Complies
Refractive index	1.470 - 1.475	1,473
Heavy metals	5 ppm max.	<5 ppm
Chlorides	10 ppm max.	Complies
Esters	NLT 8.0ml min. of 0.1M HCl.	Complies
Halogenated compounds	Opalescence produced shall not be more intense than standard solution.	Complies
Sugars	Blue solution with no precipitate - no sugar present.	Complies
Sulphated ash	0.01% max.	0,0020%
Impurities A and Related Substances	Meets requirements (GC).	Complies
Aldehydes	Absorbance @ 552nm not greater than standard.	Pass
Identification	Meets requirements (IR).	Pass
Water	<2.0% max, typical 1% max.	0,2292%
Relative density at 20°C	1.261 - 1.264 at 20°C	1,261

This material complies with B.P. Glycerine (2016) specifications.

The crude glycerol is the manufacturing of this refined glycerine is of **vegetable origin**.

Date of manufacture: 18th February 2016.

Date of expiry: 18th February 2018.