LAB ALLEY
ESSENTIAL CHEMICALS

Certificate of Analysis

Product: Polysorbate 80, Kosher, Halal
Item Number: PS80F
Grade: NF/FCC
Lot Number: 5001775/1.1
Manufacture Date: 03/01/2025
Expiration Date: 02/28/2027
Country of Origin: United States

Tested Property	Specification	Analysis
Identification (Sample solution w/NaOH)	Solution is strongly opalescent	Complies
Myristic, %	Max 5.0%	Nil
Palmitic, %	Max 16.0%	5.93
Palmitoleic, %	Max 8.0%	Nil
Stearic, %	Max 6.0%	2.12
Oleic, %	Min 58.0%	83.80
Linoleic, %	Max 18.0%	Nil
Linolenic, %	Max 4.0%	Nil
Oleic acid content Recovered, g/100gm	22.0 - 24.0	23.10
Acid value of recovered Oleic Acid, mgKOH/g	193.0 - 206.0	193.2
Iodine value, g12/100g	80.0 - 92.0	84.17
Identification (sample solution w/Bromine TS)	Bromine is decolorized	Complies
Oxyethylene Content, %	65.00 - 69.50	68.21
1, 4 Dioxane, ppm	Max 10.0	<1.0
Ethylene oxide, ppm	Max 1.0	< 0.1
Hydroxyl Value, mgKOH/g	65.0 - 80.0	72.0
Ignition residue, wt%	Max 0.250	0.059
Acid Value, mgKOH/g	Max 2.0	0.52
Assay of polyoxyethylene, %	96.5 - 103.5 %	101.8 %
Lead, as Pb, mg/Kg	Max 2.0	<1.0

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Heavy metals, ppm	Max 10.0	<10.0
PH, 5 wt% aqueous solution, 25°C	6.0 - 8.0	7.12
Viscosity, 25°C, cSt	300.0 - 500.0	370.0
Peroxide value, ppm	Max 10.0	1.00
Specific gravity at 25°C	1.060 - 1.090	1.080
Saponification value, mgKOH/g	45.0 - 55.0	49.0
Moisture, %	Max 3.0	2.34
Gardner color, 25°C	Max 6 G	3.2
Identification (sample solution in </=25°C)	A gelatinous mass is produced	Complies
Solubility	Miscible in water, ethanol	Complies
Appearance	Yellow to Amber Oily Liquid	Pass
Residual Solvents	To Meet Requirements	Complies
Identification (IR)	To Pass Test	Complies

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