

Certificate of Analysis

Product: Polysorbate 80, Food Grade, Kosher, Halal

Item Number: PS80F

CAS#: 9005-65-6

Grade: Food

Lot Number: 5001775/1.1

Manufacture Date: 03/01/2025

Expiration Date: 02/29/2028

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, gI ₂ /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	1.0
Specific gravity at 25°C	1.060 - 1.090	1.080
Saponification value, mgKOH/g	45.0 - 55.0	49.0
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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

Store in a cool, dry, and well-ventilated environment at room temperature.

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Note: The information and recommendations of Lab Alley concerning this product are based upon laboratory tests and experience. To the best of our knowledge and belief these are true and accurate, however Lab Alley assumes no obligation or liability for the information in this document. Since conditions of actual use are beyond our control, any recommendations or suggestions regarding merchantability and fitness for particular purposes are made without warranty, expressed or implied.

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