

Certificate of Analysis

Product: Polysorbate 80, Kosher, Halal

Item Number: PS80F

Grade: FCC/NF

Lot Number: 5001558/1.1

Manufacture Date: 01/01/2025

Expiration Date: 12/31/2027

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%	3.198
Palmitoleic, %	Max 8.0%	Nil
Stearic, %	Max 6.0%	4.164
Oleic, %	Min 58.0%	86.238
Linoleic, %	Max 18.0%	Nil
Linolenic, %	Max 4.0%	Nil
Oleic acid content Recovered, g/100gm	22.0 - 24.0	22.30
Acid value of recovered Oleic Acid, mgKOH/g	193.0 - 206.0	193.7
Iodine value, g12/100g	80.0 - 92.0	89.86
Identification (sample solution w/Bromine TS)	Bromine is decolorized	Complies
Oxyethylene Content, %	65.00 - 69.50	67.8
1, 4 Dioxane, ppm	Max 10.0	<1.0
Ethylene oxide, ppm	Max 1.0	0.82
Hydroxyl Value, mgKOH/g	65.0 - 80.0	75.0
Ignition residue, wt%	Max 0.250	0.095
Acid Value, mgKOH/g	Max 2.0	0.83
Assay of polyoxyethylene, %	96.5 - 103.5 %	101.2 %
Lead, as Pb, mg/Kg	Max 2.0	<1.0

Phone: 512-668-9918, Fax: 512-886-4008,

E-mail: customercare@laballey.com,

www.laballey.com.

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Heavy metals, ppm	Max 10.0	<10.0
PH, 5 wt% aqueous solution, 25°C	6.0 - 8.0	6.58
Viscosity, 25°C, cSt	300.0 - 500.0	380.0
Peroxide value, ppm	Max 10.0	1.18
Specific gravity at 25°C	1.060 - 1.090	1.080
Saponification value, mgKOH/g	45.0 - 55.0	47.0
Moisture, %	Max 3.0	1.86
Gardner color, 25°C	Max 6 G	3.7
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

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