

Certificate of Analysis

Product: Polysorbate 80
Item Number: PS80F
Grade: FCC/NF
Lot Number: 5000761/1.1
Manufacture Date: 05/03/2024
Expiration Date: 05/02/2026
Country of Origin: United States

Tested Property	Specification	Analysis
Identification (IR)	To pass the test	Pass
C14 Myristic, %	0.0 - 5.0	0.9
C16 Palmitic, %	0.0 - 16.0	5.5
C16:1 Hexadecenoic, %	0.0 - 8.0	0.1
C18 Stearic, %	0.0 - 6.0	1.4
C18:1 Oleic, %	58.0 - 90.0	81.4
C18:2 Linoleic, %	0.0 - 18.0	4.3
C18:3 Linolenic, %	0.0 - 4.0	1.0
Oleic acid content (C18:1), g/100g	22.0 - 24.0	22.7
Acid value (C18:1), mqKOH/g	193.0 - 206.0	197.7
Iodine value (C18:1), g12/100g	80.0 - 92.0	80.6
Identification FCC	As reported	Pass
Oxyethylene Content, %	65.00 - 69.50	66.00
1, 4 Dioxane, ppm	0.0 - 1.0	<1.0
Ethylene oxide, ppm	0.0 - 1.0	0.1
Hydroxyl Value, mgKOH/g	65.0 - 80.0	74.2
Ignition residue, wt%	0.000 - 0.250	0.010
Acid Value, mgKOH/g	0.0 - 2.0	1.0
Arsenic, as As, ppm	0.0 - 1.0	1.0
Lead, as Pb, ppm	0.0 - 2.0	2.0

Phone: 512-668-9918, Fax: 512-886-4008,
E-mail: Customerservice@laballey.com,
www.laballey.com.

12501 Pauls Valley Road, Suite A, Austin, Texas 78737.

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Heavy metals, ppm	0.0 - 10.0	10.0
PH, 5 wt% aqueous solution, 25°C	6.0 - 7.0	6.5
Kinematic viscosity, 25°C, cSt	300.0 - 500.0	467.2
Peroxide value, mEq/1000g	0.0 - 9.0	2.4
Specific weight at 25°C	1.060 - 1.090	1.078
Saponification value, mgKOH/g	45.0 - 55.0	49.1
Moisture, %	0.0 - 3.0	2.7
Gardner color, 25°C	0.0 - 4.0	3.8

[Polysorbate 80](#)

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