

Certificate of Analysis

Product: Polysorbate 80
Item Number: PS80F
Grade: FCC
Lot Number: 2936189
Manufacture Date: 09/30/2022
Expiration Date: 09/29/2024
Country of Origin: United States

Tested Property	Specification	Analysis
Identification (IR)	To pass the test	Pass
C14 Myristic, %	0.0 - 5.0	0.2
C16 Palmitic, %	0.0 - 16.0	6.3
C16:1 Hexadecenoic, %	0.0 - 8.0	0.0
C18 Stearic, %	0.0 - 6.0	2.2
C18:1 Oleic, %	58.0 - 90.0	78.4
C18:2 Linoleic, %	0.0 - 18.0	0.6
C18:3 Linolenic, %	0.0 - 4.0	0.0
Oleic acid content (C18:1), g/100g	22.0 - 24.0	22.7
Acid value (C18:1), mqKOH/g	193.0 - 206.0	197.5
Iodine value (C18:1), g12/100g	80.0 - 92.0	86.9
Identification FCC		Pass
Oxyethylene Content, %	65.00 - 69.50	66.30
1, 4 Dioxane, ppm	0.0 - 1.0	0.0
Ethylene oxide, ppm	0.0 - 1.0	0.0
Hydroxyl Value, mgKOH/g	65.0 - 80.0	65.7
Ignition residue, wt%	0.000 - 0.250	0.000
Acid Value, mgKOH/g	0.0 - 2.0	0.6
Arsenic, as As, ppm	0.0 - 1.0	1.0
Lead, as Pb, ppm	0.0 - 2.0	2.0

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Heavy metals, ppm	0.0 - 10.0	10.0
PH, 5 wt% aqueous solution, 25°C	6.0 - 7.0	6.3
Kinematic viscosity, 25°C, cSt	300.0 - 500.0	482.1
Peroxide value, mEq/1000g	0.0 - 9.0	0.0
Specific weight at 25°C	1.060 - 1.090	1.071
Saponification value, mgKOH/g	45.0 - 55.0	49.4
Moisture, %	0.0 - 3.0	2.8
Gardner color, 25°C	0.0 - 4.0	3.9

[Polysorbate 80](#)

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