LAB ALLEY
ESSENTIAL CHEMICALS

Certificate of Analysis

Product: Polysorbate 80, Food Grade, Kosher, Halal
Item Number: PS80F
CAS#: 9005-65-6
Grade: FCC
Lot Number: 5001064/1.1
Manufacture Date: 10/04/2024
Expiration Date: 10/03/2027
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	5.8
C16:1 Hexadecenoic, %	0.0 - 8.0	0.0
C18 Stearic, %	0.0 - 6.0	1.5
C18:1 Oleic, %	58.0 - 90.0	88.8
C18:2 Linoleic, %	0.0 - 18.0	0.3
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/q	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	65.99
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	69.2
Ignition residue, wt%	0.000 - 0.250	0.000
Acid index, mgKOH/g	0.0 - 2.0	1.3
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	6.8
Kinematic viscosity, 25°C, cSt	300.0 - 500.0	483.2
Peroxide value, mEq/1000g	0.0 - 9.0	6.0
Specific weight at 25°C	1.060 - 1.090	1.077
Saponification value, mgKOH/g	45.0 - 55.0	48.6
Moisture, %	0.0 - 3.0	3.0
Gardner color, 25°C	0.0 - 4.0	3.8

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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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