

Squalene

(6E,10E,14E,18E)-2,6,10,15,19,23-Hexamethyltetracos-2,6,10,14,18,22-hexaene

867200O-100MG

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Molecular Weight	410.73
Chemical Formula	C ₃₀ H ₅₀
Physical State	Oil
Storage	2-8°C (Do not freeze)
Expiration Date	One year from date of receipt
M Lot Number	7183OLA010
Avanti Lot Number	867200O-100MG-A-010

ANALYSIS	SPECIFICATION	RESULTS
Appearance (Form)	Oil	Pass
Appearance (Clarity)	Clear	Pass
Appearance (Color)	Colorless to light yellow	Pass
Proton NMR	Consistent with structure	Consistent with structure
Mass Spectrometry	[M+NH ₄] ⁺ = 428.7 ± 1 amu	[M+NH ₄] ⁺ = 428.7 amu
Thin Layer Chromatography (7:3 hexane: ethyl acetate)	Ninhydrin: negative Iodine: one major spot Phosphorus: negative Char: positive Wet Dip: one major spot	Ninhydrin: negative Iodine: one major spot Phosphorus: negative Char: positive Wet Dip: one major spot
Acid Value	0.0-1.0 mg KOH/g	0.1 mg KOH/g
Saponification Value	0.0-5.0 mg KOH/g	0.5 mg KOH/g
Iodine Value	350-450 g I ₂ /100 g	400 g I ₂ /100 g
Peroxide Value	0.0 – 5.0 meq O ₂ /kg	1.0 meq O ₂ /kg
Refractive Index @ 20C	1.491 – 1.499	1.496
Water	0.0 – 0.2 %w/w	<0.1 %w/w
Ph Eur Assay	97.0 – 103.0 %w/w	101.6 %w/w
Purity	99 – 101 %w/w	100 %w/w
Impurities	0 – 2 %w/w	<1 %w/w
Ethanol	0 – 5000 ppm	<10 ppm

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ANALYSIS	SPECIFICATION	RESULTS
Arsenic	0.0 – 1.0 ppm	<0.1 ppm
Cadmium	0.0 – 1.0 ppm	<0.1 ppm
Lead	0.0 – 1.0 ppm	<0.1 ppm
Mercury	0.0 – 1.0 ppm	<0.1 ppm
Bacterial Endotoxin	0.00 – 0.25 EU/mL	<0.01 EU/mL
Total Count	0 – 1000 cfu/g	<10 cfu/g
Yeast and Mold	0 – 100 cfu/g	<10 cfu/g
Burkholderia cepacian complex	Not detected	Pass

Approved By:



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