

TECHNICAL DATA SHEET

VERSION: DECEMBER 2024

INGREDIENT INFORMATION

Product name	Sacha Inchi oil Organic
Botanical name	Plukenetia volubilis L.
CAS Number	68956-68-3
EINECS Number	273-313-5
INCI Name	Plukenetia volubilis seed oil
Product use	Active ingredient in cosmetic applications
Origin	Peru

Part used	Seeds
Extraction Method	Cold pressed
Quality	100% pure, unrefined

ORGANOLEPTIC QUALITY

Appearance	Viscous liquid, clean, bright
Color	Light yellow
Odor	Characteristic, light, nutty, pleasant odor

PROPERTIES

	SPECIFICATION
Acid Value (mgKOH/g)	0.2 - 1.0
Refractive index (20 °C)	1.4797 - 1.4817
Peroxide Value (meqO2/kg)	≤ 10.0
Saponification index	189 - 196
Iodine index	144.35 -196.00
Density (20 °C) g/ml	0.923 - 0.928
Unsaponifiable matter %	0.20 - 0.54
Humidity %	0.01 - 0.06

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FATTY ACIDS COMPOSITION

Fatty acid	SPECIFICATION
C16:0 Palmitic Acid (%)	3.40 - 4.40
C18:0 Stearic acid (%)	2.57 - 3.20
C18:1 Oleic Acid (Omega 9) (%)	6.40 - 14.0
C18:2 Linoleic Acid (Omega 6) (%)	32.8 - 38.4
C18:3 Linolenic Acid (Omega 3) (%)	42.0 - 48.0

Certifications available	• EU Organic • USDA
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Stability and storage:

- Storage conditions: Cool, dark and dry.
Keep away from direct sunlight.
- Shelf life: 36 months after the date of manufacturing, in its original closed packaging and in the recommended conditions.