

TECHNICAL DATA SHEET (TDS)

Product Name	ARGAN OIL
Botanical Name	Argania spinosa
CAS #	223747-87-3
INCI Name	Argania spinosa (Argan) Kernel oil

Part Used	Fruit Kernels
Extraction Method	Cold Pressed
Quality	100% Pure and Natural

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>
Appearance	Clear light yellow to golden colored liquid
Odour	Nearly odourless
Refractive Index	1.450 - 1.475 @ 20°C
Specific Gravity (g / mL)	0.900 - 0.930 @ 20°C
Saponification Value (mgKOH / g)	185 - 200
Peroxide Value (meq O ₂ / kg)	Max 5.0
Iodine Value (g I ₂ / 100g)	95 - 105
Free Fatty Acids (% oleic)	Less than 0.5
Acid Value (mgKOH / g)	Max 4.0
Solubility	Soluble in cosmetic esters and fixed oils; Insoluble in water

FATTY ACID COMPOSITION:

<u>FATTY ACID</u>	<u>C-CHAIN</u>	<u>SPECIFICATIONS (%)</u>
Palmitic Acid	<u>C16:0</u>	<u>4.00 - 14.00</u>
Stearic Acid	<u>C18:0</u>	<u>2.00 - 6.00</u>
Oleic Acid	<u>C18:1 (n-9)</u>	<u>40.00 - 55.00</u>
Linoleic Acid	<u>C18:2 (n-6)</u>	<u>30.00 - 45.00</u>

MICROBIAL ANALYSIS	<u>SPECIFICATIONS</u>	<u>STANDARDS</u>
Aerobic Mesophilic Bacterial Count	< 100 CFU / g	ISO 21149
Yeast and Mould	< 10 CFU / g	ISO 16212
Candida albicans	ABSENT / 1g	ISO 18416
Escherichia coli	ABSENT / 1g	ISO 21150
Pseudomonas aeruginosa	ABSENT / 1g	ISO 22717
Staphylococcus aureus	ABSENT / 1g	ISO 22718

<u>HEAVY METAL TESTS</u>	<u>SPECIFICATIONS</u>	<u>STANDARDS</u>
Lead: Pb (mg / kg or ppm)	< 10 ppm	na
Arsenic: As (mg / kg or ppm)	< 2 ppm	na
Mercury: Hg (mg / kg or ppm)	< 1 ppm	na

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