

TECHNICAL DATA SHEET (TDS)

Product Name	GARLIC OIL
Botanical Name	Allium sativum
CAS #	8000-78-0
EINECS #	616-782-7
INCI Name	Allium Sativum (Garlic) Seed Oil

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

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>
Appearance	Pale yellow to golden colored liquid
Odour	Slightly pungent, characteristic garlic aroma
Refractive Index	1.455 - 1.480 @ 20°C
Specific Gravity (g/mL)	0.905 - 0.935 @ 30°C
Saponification Value (mgKOH/g)	180 – 200
Peroxide Value (meq O ₂ /kg)	Less than 5.0
Iodine Value (g I ₂ /100g)	100 – 145
Free Fatty Acids (% oleic)	Less than 1.5
Solubility	Soluble in cosmetic esters and fixed oils; Insoluble in water

FREE ACID COMPOSITION

FATTY ACID	C-CHAIN	SPECIFICATIONS (%)
Palmitic Acid	C16:0	6.00 – 13.00
Stearic Acid	C18:0	2.00 – 5.00
Oleic Acid	C18:1 (n-9)	22.00 – 34.00
Linoleic Acid	C18:2 (n-6)	45.00 – 60.00
Erucic Acid	C22:1 (n-9)	1.00 – 5.00

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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