

## TECHNICAL DATA SHEET (TDS)

<b>Product Name</b>	<b>KALAHARI MELON SEED OIL</b>
<b>Botanical Name</b>	Citrullus lanatus
<b>Product Code</b>	PCO4093
<b>CAS #</b>	90244-99-8
<b>EINECS #</b>	290-802-9
<b>INCI Name</b>	Citrullus Lanatus (Watermelon) Seed Oil

<b>Part Used</b>	Seeds
<b>Extraction Method</b>	Cold Pressed
<b>Quality</b>	100% Pure and Natural

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>
<b>Appearance</b>	Pale yellow to golden yellow colored liquid
<b>Odour</b>	Characteristic odour
<b>Refractive Index</b>	1.465 - 1.485 @ 20°C
<b>Specific Gravity (g/mL)</b>	0.900 - 0.940 @ 20°C
<b>Saponification Value (mgKOH/g)</b>	180 - 200
<b>Peroxide Value (meq O<sub>2</sub>/kg)</b>	Less than 3.0
<b>Iodine Value (g I<sub>2</sub>/100g)</b>	120 - 135
<b>Acid Value (mgKOH/g)</b>	Less than 2.0
<b>Solubility</b>	Soluble in cosmetic esters and fixed oils; Insoluble in water

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**FATTY ACID COMPOSITION:**

<u>FATTY ACID</u>	<u>C-CHAIN</u>	<u>SPECIFICATIONS (%)</u>
Palmitic Acid	C16:0	8.00 – 13.00
Palmitoleic Acid	C16:1 (n-7)	Maximum 1.0
Stearic Acid	C18:0	5.00 – 11.00
Oleic Acid	C18:1 (n-9)	10.00 – 29.00
Linoleic Acid	C18:2 (n-6)	55.00 – 70.00
Alpha-Linolenic Acid	C18:3 (n-3)	Maximum 2.00

<u>MICROBIAL ANALYSIS</u>	<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

**STABILITY AND STORAGE:**

Keep in tightly closed container in a cool and dry place, protected from sunlight. When stored for more than 24 months, quality should be checked before use.

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