

### TECHNICAL DATA SHEET (TDS)

Product Name	CUSTARD APPLE SEED OIL
Botanical Name	Annona squamosa
CAS #	-
EINECS #	-
INCI Name	Annona Squamosa Seed Oil

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

<b><u>PROPERTIES</u></b>	<b><u>SPECIFICATIONS</u></b>
Appearance	Pale yellow to golden yellow colored liquid
Odour	Characteristic mild odour
Refractive Index	1.450 - 1.490 @ 20°C
Specific Gravity (g/mL)	0.900 - 0.940 @ 20°C
Saponification Value (mgKOH/g)	180 - 210
Peroxide Value (meq O <sub>2</sub> /kg)	Less than 5.0
Iodine Value (g I <sub>2</sub> /100g)	90-130
Acid Value (mgKOH/g)	Less than 2.0
Moisture (%)	Maximum 0.1
Solubility	Soluble in cosmetic esters and fixed oils; Insoluble in water

#### **FATTY ACID COMPOSITION:**

<b><u>FATTY ACID</u></b>	<b><u>C-CHAIN</u></b>	<b><u>SPECIFICATIONS (%)</u></b>
Palmitic Acid	<u>C16:0</u>	<u>12.00 – 24.00</u>
Palmitoleic Acid	<u>C16:1 (n-7)</u>	<u>Maximum 2.00</u>
Stearic Acid	<u>C18:0</u>	<u>3.00 – 7.00</u>
Oleic Acid	<u>C18:1 (n-9)</u>	<u>36.00 – 45.00</u>
Linoleic Acid	<u>C18:2 (n-6)</u>	<u>24.00 – 34.00</u>
Alpha-Linolenic Acid	<u>C18:3 (n-3)</u>	<u>Maximum 1.00</u>
Behenic Acid	<u>C22:0</u>	<u>1.00 – 3.00</u>

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<b>MICROBIAL ANALYSIS</b>	<b><u>SPECIFICATIONS</u></b>	<b><u>STANDARDS</u></b>
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

<b><u>HEAVY METAL TESTS</u></b>	<b><u>SPECIFICATIONS</u></b>	<b><u>STANDARDS</u></b>
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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