

TECHNICAL DATA SHEET (TDS)

Product Name	PUMPKIN SEED OIL
Botanical Name	Cucurbita pepo
CAS #	8016-49-7; 89998-03-8
EINECS #	289-741-0
INCI Name	Cucurbita pepo (Pumpkin) Seed Oil

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

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>
Appearance	Reddish amber to dark green colored liquid
Odour	Characteristic mild nutty odour
Refractive Index	1.471 - 1.475 @ 20°C
Specific Gravity (g/mL)	0.915 - 0.925 @ 25°C
Saponification Value (mgKOH/g)	188 - 198
Unsaponifiable Matter (%)	Maximum 2.5
Peroxide Value (meqO ₂ /kg)	Less than 10.0
Iodine Value (g I ₂ /100g)	110 – 130
Acid Value (mgKOH/g)	Less than 1.5
Solubility	Soluble in cosmetic esters and fixed oils; Insoluble in water
Appearance	Reddish amber to dark green colored liquid

FREE ACID COMPOSITION

FATTY ACID	C-CHAIN	SPECIFICATIONS (%)
Palmitic Acid	C16:0	7.00 – 16.00
Stearic Acid	C18:0	3.00 – 8.00
Oleic Acid	C18:1 (n-9)	17.00 – 41.00
Linoleic Acid	C18:2 (n-6)	40.00 – 62.00
Alpha-Linolenic Acid	C18:3 (n-3)	Maximum 3.00

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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