

## TECHNICAL DATA SHEET (TDS)

Product Name	RASPBERRY SEED OIL
Botanical Name	Rubus idaeus
CAS #	84929-76-0; 381718-28-1
EINECS #	284-554-0
INCI Name	Rubus Idaeus (Raspberry) Seed Oil

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

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>
Appearance	Dark yellow colored liquid with a little green hue
Odour	Characteristic mild fruity odour
Refractive Index	1.470 - 1.482 @ 20°C
Specific Gravity (g/mL)	0.910 - 0.950 @ 25°C
Saponification Value (mgKOH/g)	170 - 210
Peroxide Value (meqO <sub>2</sub> /kg)	Less than 10.0
Iodine Value (g I <sub>2</sub> /100g)	165 – 192
Free Fatty Acids (% oleic)	Less than 1.0
Acid Value (mgKOH/g)	Less than 2.0
Solubility	Soluble in cosmetic esters and fixed oils; Insoluble in water

### FREE ACID COMPOSITION

FATTY ACID	C-CHAIN	SPECIFICATIONS (%)
Palmitic Acid	C16:0	2.00 – 5.00
Stearic Acid	C18:0	0.50 – 3.00
Oleic Acid	C18:1 (n-9)	7.00 – 15.00
Linoleic Acid	C18:2 (n-6)	48.00 – 62.00
Alpha-Linolenic Acid	C18:3 (n-3)	28.00 – 36.00

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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