

TECHNICAL DATA SHEET (TDS)

Product Name	BLACKBERRY SEED OIL
Botanical Name	Rubus fruticosus
CAS #	84787-69-9
EINECS #	284-110-6
INCI Name	Rubus Occidentalis (Black Raspberry) Seed Oil

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

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>
Appearance	Pale greenish golden to green colored liquid
Odour	Mild characteristic, sweet nutty odour
Refractive Index	1.466 - 1.486 @ 20°C
Specific Gravity (g/mL)	0.890 - 0.935 @ 20°C
Moisture (%)	Less than 0.1%
Peroxide Value (meq O ₂ /kg)	Less than 15.0
Acid Value (mgKOH/g)	Less than 5.0
Appearance	Pale greenish golden to green colored liquid
Solubility	Soluble in cosmetic esters and fixed oils; Insoluble in water

FATTY ACID COMPOSITION:

FATTY ACID	<u>C-CHAIN</u>	<u>SPECIFICATIONS (%)</u>
Palmitic Acid	<u>C16:0</u>	<u>3.00 – 8.00</u>
Stearic Acid	<u>C18:0</u>	<u>1.50 – 2.80</u>
Oleic Acid	<u>C18:1 (n-9)</u>	<u>7.00 – 15.00</u>
Linoleic Acid	<u>C18:2 (n-6)</u>	<u>53.00 – 60.00</u>
Alpha-Linolenic Acid	<u>C18:3 (n-3)</u>	<u>22.00 – 28.00</u>

<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

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