

# TECHNICAL DATA SHEET (TDS)

Product Name	BLACKCURRANT SEED OIL
Botanical Name	Ribes nigrum
CAS #	68606-81-5 ; 97676-19-2
EINECS #	-
INCI Name	Ribes nigrum (Black Currant) Seed Oil

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

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>
Appearance	Clear pale yellow to golden yellow colored liquid
Odour	Characteristic very mild odour
Refractive Index	1.467 - 1.483 @ 20°C
Specific Gravity (g/mL)	0.910- 0.935 @ 20°C
Saponification Value (mgKOH/g)	185 – 195
Peroxide Value (meq O <sub>2</sub> /kg)	Less than 3.0
Iodine Value (g I <sub>2</sub> /100g)	145 -185
Free Fatty Acids (% oleic)	Less than 0.5
Acid Value (mgKOH/g)	Less than 1.0
Solubility	Soluble in cosmetic esters and fixed oils; Insoluble in water

## FATTY ACID COMPOSITION:

<u>FATTY ACID</u>	<u>C-CHAIN</u>	<u>SPECIFICATIONS (%)</u>
Palmitic Acid	<u>C16:0</u>	<u>3.00 – 9.00</u>
Stearic Acid	<u>C18:0</u>	<u>1.00 – 4.00</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-6)</u>	<u>22.00 – 28.00</u>
Gamma-Linolenic Acid	<u>C18:3 (n-6)</u>	<u>Minimum 15.0</u>
Stearidonic Acid	<u>C18:4 (n-3)</u>	<u>2.00 – 4.00</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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