

## TECHNICAL DATA SHEET

<b>Product Name</b>	<b>LIGONBERRY SEED OIL</b>
<b>Botanical Name</b>	Vaccinium vitis-idaea
<b>Product Code</b>	PCO4117
<b>INCI Name</b>	Vaccinium vitis-idaea Seed Oil

<b>Part Used</b>	Seeds
<b>Extraction Method</b>	Cold Pressed
<b>Quality</b>	100% Pure and Natural

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>
<b>Appearance</b>	Pale yellow to golden colored liquid
<b>Odour</b>	Faint characteristic odour
<b>Refractive Index</b>	1.460 - 1.485 @ 20°C
<b>Specific Gravity (g/mL)</b>	0.910 - 0.930 @ 20°C
<b>Saponification Value (mgKOH/g)</b>	180 - 200
<b>Peroxide Value (meq O<sub>2</sub>/kg)</b>	Less than 5.0
<b>Iodine Value (g I<sub>2</sub>/100g)</b>	150 - 190
<b>Free Fatty Acids (% oleic)</b>	Less than 1.5
<b>Acid Value (mgKOH/g)</b>	Less than 3.0
<b>Solubility</b>	Soluble in alcohols and fixed oils; Insoluble in water

### FATTY ACID COMPOSITION:

<u>FATTY ACID</u>	<u>C-CHAIN</u>	<u>SPECIFICATIONS (%)</u>
<b>Palmitic Acid</b>	C16:0	3.00 – 6.00
<b>Stearic Acid</b>	C18:0	Maximum 2.00
<b>Oleic Acid</b>	C18:1 (n-9)	12.00 – 18.00
<b>Linoleic Acid</b>	C18:2 (n-6)	30.00 – 40.00
<b>Alpha-Linolenic Acid</b>	C18:3 (n-3)	40.00 – 48.00

### STABILITY AND STORAGE:

Keep in tightly closed container in a cool and dry place, protected from sunlight. When stored for more than 24 months, quality should be checked before use.

**As it is electronically generated document, hence no signature required.**

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