

## **TECHNICAL DATA SHEET (TDS)**

<b>Product Name</b>	<b>BERGAMOT ESSENTIAL OIL, FCF (BERGAPTEN FREE)</b>
<b>Botanical Name</b>	Citrus aurantium bergamia
<b>CAS #</b>	8007-75-8 ; 89957-91-5
<b>EINECS #</b>	289-612-9
<b>INCI Name</b>	Citrus Aurantium Bergamia (Bergamot) Fruit Oil

<b>Part Used</b>	Peels
<b>Extraction Method</b>	Cold Pressed Essential Oil
<b>Quality</b>	100% Pure and Natural
<b>Note Classification</b>	Top to Middle Note

<b><u>PROPERTIES</u></b>	<b><u>SPECIFICATIONS</u></b>
<b>Appearance</b>	Colorless to pale yellow clear, mobile liquid
<b>Odour</b>	Very fresh, sweet, green-floral, herbaceous aroma
<b>Refractive Index</b>	1.458 - 1.464 @ 20°C
<b>Specific Gravity (g/mL)</b>	0.877 - 0.890 @ 20°C
<b>Optical Rotation (°)</b>	-11° to -7°
<b>Solubility</b>	Soluble in alcohols and fixed oils; Insoluble in water

<b><u>MICROBIAL ANALYSIS</u></b>	<b><u>SPECIFICATIONS</u></b>	<b><u>STANDARDS</u></b>
<b>Aerobic Mesophilic Bacterial Count</b>	< 100 CFU/g	ISO 21149
<b>Yeast and Mould</b>	< 10 CFU/g	ISO 16212
<b>Candida albicans</b>	ABSENT / 1g	ISO 18416
<b>Escherichia coli</b>	ABSENT / 1g	ISO 21150
<b>Pseudomonas aeruginosa</b>	ABSENT / 1g	ISO 22717
<b>Staphylococcus aureus</b>	ABSENT / 1g	ISO 22718

<b><u>HEAVY METAL TESTS</u></b>	<b><u>SPECIFICATIONS</u></b>	<b><u>STANDARDS</u></b>
<b>Lead: Pb (mg/kg or ppm)</b>	< 10 ppm	na
<b>Arsenic: As (mg/kg or ppm)</b>	< 2 ppm	na
<b>Mercury: Hg (mg/kg or ppm)</b>	< 1 ppm	na

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