

TECHNICAL DATA SHEET

Product Name	MANUKA ESSENTIAL OIL
Botanical Name	Leptospermum scoparium
Product Code	PEO1189
CAS #	223749-44-8
EINECS #	425-630-7
INCI Name	Leptospermum Scoparium Branch/Leaf Oil

Part Used	Leaves and Twigs
Extraction Method	Steam Distilled Essential Oil
Quality	100% Pure and Natural
Note Classification	Top to Middle Note

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>
Appearance	Clear to pale yellow colored liquid
Odour	Fresh, diffusive, warm, terpenic, faintly herbaceous aroma
Refractive Index	1.496 - 1.506 @ 20°C
Specific Gravity (g/mL)	0.950 - 0.987 @ 20°C
Optical Rotation (°)	-45° to -15°
Solubility	Soluble in alcohols and fixed oils; Insoluble in water

<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

Disclaimer & Caution: Please refer to all relevant technical information specific to the product, prior to use. The information contained in this document is obtained from current and reliable sources. Ethereal Ingredients (P) Ltd provides the information contained herein, but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. The user of the product is solely responsible for compliance with all laws and regulations applying to the use of the product, including intellectual property rights of third parties. As the ordinary or otherwise use(s) of this product is outside the control of Ethereal Ingredients (P) Ltd, no representation or warranty - expressed or implied - is made as to the effect(s) of such use(s), (including damage or injury), or the results obtained. The liability of Ethereal Ingredients (P) Ltd is limited to the value of the goods and does not include any consequential loss. Ethereal Ingredients (P) Ltd shall not be liable for any errors or delays in the content, or for any actions taken in reliance thereon. Ethereal Ingredients (P) Ltd shall not be responsible for any damages resulting from the use of or reliance upon this information.

<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

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.

Disclaimer & Caution: Please refer to all relevant technical information specific to the product, prior to use. The information contained in this document is obtained from current and reliable sources. Ethereal Ingredients (P) Ltd provides the information contained herein, but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. The user of the product is solely responsible for compliance with all laws and regulations applying to the use of the product, including intellectual property rights of third parties. As the ordinary or otherwise use(s) of this product is outside the control of Ethereal Ingredients (P) Ltd, no representation or warranty - expressed or implied - is made as to the effect(s) of such use(s), (including damage or injury), or the results obtained. The liability of Ethereal Ingredients (P) Ltd is limited to the value of the goods and does not include any consequential loss. Ethereal Ingredients (P) Ltd shall not be liable for any errors or delays in the content, or for any actions taken in reliance thereon. Ethereal Ingredients (P) Ltd shall not be responsible for any damages resulting from the use of or reliance upon this information.