

### TECHNICAL DATA SHEET (TDS)

Product Name	VALERIAN ESSENTIAL OIL
Botanical Name	Valeriana officinalis
CAS #	8008-88-6 ; 97927-02-1
EINECS #	308-322-6
INCI Name	Valeriana Officinalis (Valerian) Root Oil

Part Used	Roots
Extraction Method	Steam Distilled Essential Oil
Quality	100% Pure and Natural
Note Classification	Base Note

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>
Appearance	Yellow to greenish yellow colored liquid
Odour	Warm-woody, balsamic, musky aroma
Refractive Index	1.490 to 1.530 nD
Specific Gravity (g/mL)	0.9400 to 1.0200 g/cm <sup>3</sup>
Optical Rotation (°)	-40° to -20°
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

<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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