

TECHNICAL DATA SHEET (TDS)

Product Name	CLOVE BUD ESSENTIAL OIL
Botanical Name	Syzygium aromaticum (synonym Eugenia caryophyllata)
CAS #	8000-34-8 ; 84961-50-2
EINECS #	284-638-7
INCI Name	Eugenia Caryophyllus (Clove) Flower Oil

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

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>
Appearance	pale yellow to golden colored liquid
Odour	Rich warm, sweet-spicy, eugenolic aroma
Refractive Index	1.525 - 1.545 @ 20°C
Specific Gravity (g/mL)	1.042 - 1.070 @ 20°C
Optical Rotation (°)	-2° to 0°
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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