

Since 1974 Geranium International Trade



TECHNICAL DATA SHEET (TDS) FENNEL (BITTER) ESSENTIAL OIL

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Product Name		NEL (BITTER) ESSENTIAL OIL	
Botanical Name	Foeniculum vulgare		
Product Code	GEO-N9		
CAS#	84625-39-8 ; 8006-84-6		
FEMA#	2481		
EINECS#	283-414-6		
INCI Name	Foeniculum Vulgare Oil		
Part Used	Seeds		
Extraction Method	Steam Distilled Essential Oil		
Quality	100% Pure and Natural		
Note Classification	Middle to Top Note		
PROPERTIES	<u>SPECIFICATIONS</u>		
Appearance	Colorless to pale yellow clear liquid		
Odour	Characteristic sweet herbaceous odor		
Refractive Index	1.480 to 1.510 @ 20°C		
Specific Gravity (g/mL)	0.877 to 0.920 @ 20°C		
Optical Rotation (°)	+5° to +20°		
Solubility	Soluble in alcohols and fixed oils; Insoluble in water		
MICROBIAL ANALYSIS		SPECIFICATIONS	STANDARDS
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
HEAVY METAL TESTS		SPECIFICATIONS	STANDARDS
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 36 months, quality should be checked before use.

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