



## TECHNICAL DATA SHEET (TDS)

### MARJORAM ESSENTIAL OIL

|                     |                               |
|---------------------|-------------------------------|
| Product Name        | MARJORAM ESSENTIAL OIL        |
| Botanical Name      | Origanum majorana             |
| Product Code        | GEO-N13                       |
| CAS #               | 8015-01-8 ; 84082-58-6        |
| FEMA #              | 2663                          |
| EINECS #            | 282-004-4                     |
| INCI Name           | Origanum Majorana Leaf Oil    |
| Part Used           | Leaves and Flowering Tops     |
| Extraction Method   | Steam Distilled Essential Oil |
| Quality             | 100% Pure and Natural         |
| Note Classification | Middle to Top Note            |

#### PROPERTIES

#### SPECIFICATIONS

|                         |                                                                 |
|-------------------------|-----------------------------------------------------------------|
| Appearance              | Colorless to pale yellow liquid                                 |
| Odour                   | Fresh, herbaceous-woody, mildly spicy, slightly medicinal aroma |
| Refractive Index        | 1.467 - 1.480 @ 20°C                                            |
| Specific Gravity (g/mL) | 0.870 - 0.910 @ 20°C                                            |
| Optical Rotation (°)    | +5° to +35°                                                     |
| 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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