

TECHNICAL DATA SHEET (TDS)

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|----------------|---------------------------------------|
| Product Name | MANDARIN ESSENTIAL OIL |
| Botanical Name | Citrus reticulata |
| CAS # | 8008-31-9 ; 84929-38-4 |
| EINECS # | 284-521-0 |
| INCI Name | Citrus Reticulata (Mandarin) Peel oil |

| | |
|---------------------|----------------------------|
| Part Used | Peels |
| Extraction Method | Cold Pressed Essential Oil |
| Quality | 100% Pure and Natural |
| Note Classification | Top Note |

| <u>PROPERTIES</u> | <u>SPECIFICATIONS</u> |
|-------------------------|--|
| Appearance | Pale yellow to reddish orange colored liquid |
| Odour | Fresh, zesty, characteristic citrus-sweet aroma |
| Refractive Index | 1.450 to 1.490 nD |
| Specific Gravity (g/mL) | 0.8100 to 0.8900 g/cm ³ |
| Optical Rotation (°) | +35° to +75° |
| 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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