



Technical Data Sheet

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| Product Name: | Cardamom Essential Oil | Extraction Method: | Steam Distilled Essential Oil |
| Botanical Name: | <i>Elettaria cardamomum</i> | Quality: | 100% Pure and Natural |
| Used Part: | Fruit Seeds | INCI Name: | Elettaria Cardamomum (Cardamom) Oil |
| CAS No.: | 8000-66-6; 85940-32-5 | | |

| IDENTIFICATION | | SPECIFICATION | STANDARDS |
|------------------|------------------------------------|---|-----------|
| Physical | Appearance | Colorless to pale greenish yellow colored liquid | - |
| | Odour | Spicy-sweet, fruity, warm, highly aromatic, slightly cineolic aroma | - |
| | Refractive Index | 1.460 - 1.470 20°C | - |
| | Specific Gravity (g/mL) | 0.915 - 0.940 20°C | - |
| | Optical Rotation (°) | +15° to +50° | - |
| | Solubility | Soluble in alcohols and fixed oils; Insoluble in water | - |
| Chemical | Lead (Pb) | < 10 ppm | - |
| | Arsenic (As) | < 2 ppm | - |
| | Mercury (Hg) | < 1 ppm | - |
| Microbial | Aerobic Mesophilic Bacterial Count | < 100 cfu/g | ISO 21149 |
| | Yeast & Mould | < 10 cfu/g | ISO 16212 |
| | Candida albicans | Negative | ISO 18416 |
| | Escherichia coli | Negative | ISO 21150 |
| | P. aeruginosa | Negative | ISO 22717 |
| | S. aureus | Negative | ISO 22718 |

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| Else | Storage Condition | Keep in a tightly closed container in a cool and dry place, protected from sunlight. |
| | Shelf Life | When stored for more than 24 months, quality should be checked before use. |

