

**Product:** Spearmint Essential Oil

**Lot/Batch Number:** SMNT220215

**Best Before:** June 2024

| PROPERTIES              | SPECIFICATIONS   | RESULTS  |
|-------------------------|--|----------|
| Appearance              | Light Yellow to Pale Yellow Liquid                                   | CONFORMS |
| Odour                   | Characteristic   | CONFORMS |
| Solubility              | Soluble in 3.5 volume of 70%alcohol solution.<br>Insoluble in water. | CONFORMS |
| Specific Gravity @ 20°C | 0.918 – 0.930  | 0.921    |
| Refractive Index @ 20°C | 1.485 – 1.494  | 1.489    |
| Optical Rotation @ 20°C | -65 to -45   | -60.25   |
| L-Carvone %             | 52 – 70  | 67.25    |
| α-Pinene %              | 0.5 – 2.0  | 1.0      |
| Limonene %              | 17 – 25  | 19.95    |
| Cineole %               | 1.30 – 2.20  | 1.85     |
| Total Terpenes %        | 20 – 30  | 23.50    |

**Storage and Handling:** Shelf life is dependent on exposure to light/air and general good conditions. Products stored in adverse conditions will deteriorate faster. Products stored in ideal conditions away from light and moisture may last substantially longer. Retest date reflects absolute minimum period of time that product should remain in good useable condition.

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