

## CERTIFICATE OF ANALYSIS

Standard product specification — applicable to all consignments of this product and grade supplied by Scapex Exports Pvt. Ltd., manufacturer and supplier of quality chemicals.

|                   |                                 |
|-------------------|---------------------------------|
| Product Name      | Peppermint Oil                  |
| C.A.S. Number     | 8006-90-4                       |
| Molecular Formula | —                               |
| Molecular Weight  | —                               |
| Grade / Standard  | natural, min 50% menthol        |
| Physical Form     | Colorless to pale yellow liquid |
| Product Category  | Flavour & Fragrance Ingredients |
| Country of Origin | India                           |

### ANALYTICAL RESULTS

| S. No. | Test Parameter            | Specification                              | Result          | Method                    |
|--------|---------------------------|--------------------------------------------|-----------------|---------------------------|
| 1      | Description               | Colorless to pale yellow liquid            | Complies        | Visual                    |
| 2      | Identification            | Conforms to the structure of the substance | Complies        | FTIR / Chemical test      |
| 3      | Assay                     | Not less than 50.0 % w/w                   | 50.60           | Titrimetry / Instrumental |
| 4      | Odour / Organoleptic      | Characteristic; matches reference          | Conforms        | Sensory panel             |
| 5      | Refractive Index at 20 °C | As per specification                       | Conforms        | Refractometry             |
| 6      | Specific Gravity at 25 °C | As per specification                       | Conforms        | Pycnometry                |
| 7      | Optical Rotation          | As per specification                       | Conforms        | Polarimetry               |
| 8      | Purity (by GC)            | Not less than 98.0 % (area)                | 98.97           | Gas Chromatography        |
| 9      | Acid Value                | Not more than 1.0 mg KOH/g                 | 0.21            | Titrimetry                |
| 10     | Heavy Metals (as Pb)      | Not more than 10 ppm                       | Less than 2 ppm | ICP-MS                    |
| 11     | Structure                 | Conforms to reference structure            | Complies        | FTIR / NMR                |

#### Remarks

Material supplied against this specification is analysed on every production lot and **conforms** to the limits stated above in all tested parameters. Results shown are the typical values obtained for this grade.

Retained samples are held against every export consignment. Store in tightly closed original packing, in a cool, dry, well-ventilated place away from incompatible materials and direct sunlight.

#### Checked and Approved by

**Prem Panchal**  
Quality Assurance  
Scapex Exports Pvt. Ltd.

This document sets out the standard specification for the product named above and applies to all consignments of this grade. It is issued by Scapex Exports Pvt. Ltd. as manufacturer and supplier. Refer to the Material Safety Data Sheet (MSDS) before handling.