ORYION CHEMICALS (PTY) LTD
T/A Oryion Oils & Fragrances
CK2023/235387/07
Main Road, Queensburgh, Durban, South Africa, 4076
Contact: 076 092 6052

Pepp01/–ver1.0

Certificate of Analysis (COA)

This Certificate of Analysis provides the actual analytical test results verifying that:

Peppermint (Piperita) Essential Oil (Food Grade)

Complies fully with standard technical specifications.

Product Information

- **Product Name:** Peppermint (Piperita) Essential Oil (Food Grade)
- **Latin Name:** *Mentha piperita*
- **Country of Origin:** India
- **Batch No:** 1468693
- **Manufacturing Date:** 09 September 2025
- **Expiry Date:** 08 September 2028
- **Retest Date:** Suggested one month prior to expiry

Physical & Analytical Properties

Analytical Data	Method	Target Value	Measured Value
Characters	Visual	A colourless, pale yellow or pale greenish-yellow liquid with a characteristic odour	Conforms
GC Identification	2.2.28 FL WAX 35	Must comply	**Complies**
Relative Density (d20/20)	2.2.5	0.888 - 0.910	**0.9000**
Optical Rotation (a20)	2.2.7	-34° to -16°	**-18.4°**
Refractive Index (nD20)	2.2.6	1.456 - 1.470	**1.4575**
Fatty Oils & Resinified Oils	2.8.7	Must comply	**Complies**
Acid Value	2.5.1_FL	≤ 1.0 mg KOH/g	**0.5 mg KOH/g**

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Chromatographic Profile (GC-MS Component Analysis)

Component	Method	Target Range %	Measured Value %
Menthol	2.2.28_FL WAX 35	30.0 - 50.0 %	**39.3 %**
Menthone	2.2.28_FL WAX 35	17.0 - 35.0 %	**22.7 %**
Isomenthone	2.2.28_FL WAX 35	5.0 - 13.0 %	**10.5 %**
Menthyl acetate	2.2.28_FL WAX 35	1.5 - 7.0 %	**5.7 %**
Limonene	2.2.28_FL WAX 35	1.5 - 7.0 %	**3.4 %**
Pulegone	2.2.28_FL WAX 35	≤ 2.5 %	**1.8 %**
Isopulegol	2.2.28_FL WAX 35	1.0 - 3.0 %	**1.7 %**
1.8-Cineole	2.2.28_FL WAX 35	≤ 1.5 %	**0.1 %**
Carvone	2.2.28_FL WAX 35	≤ 2.0 %	**0.0 %**
1.8-Cineole: limonene	2.2.28_FL WAX 35	≤ 1	**0.0 %**

Handling & Storage

- **Precautions for Safe Handling:** Prevent formation of aerosols. No special measures required for fire and explosion protection.
- **Conditions for Safe Storage:** Keep container tightly sealed. No special requirements for storerooms or receptacles. Storage class: 10.

Disclaimer: The information above is, to the best of our knowledge, reliable. Users should conduct their own tests to determine the suitability of the product for their own specific purposes.



Authorized Signature:

Date: 22 January 2026