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

Swor01/–ver1.0

Certificate of Analysis (COA)

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

Sweet Orange Essential Oil (Food Grade)

Complies fully with standard technical specifications.

Product Information

- **Product Name:** Sweet Orange Essential Oil (Food Grade)
- **Latin Name:** *Citrus Sinensis*
- **CAS No:** 8008-57-9
- **Country of Origin:** South Africa
- **Part of Plant Used:** Fruit/peel (Cold Pressed)
- **Batch No:** SOB29196
- **Manufacturing Date:** 31 March 2026
- **Expiry Date:** 31 March 2028
- **Retest Date:** Suggested one month prior to expiry

Physical & Analytical Properties

Analytical Details	Specifications Range	Results
Colour	Clear pale yellow to Orange	Complies
Odour	Sweet Citrus aroma	Complies
Physical State	Liquid oil	Complies
Refractive Index @ (20°C)	1.470 – 1.475	**1.4731**
Relative Density @ (20°C)	0.845 – 0.855	**0.8465**
Optical Rotation	+94° to +100°	**+97.02°**

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Major Chemical Constituents (GC-MS Analysis)

Name of Constituent	Specifications Range %	Results (Composition %)
Limonene	92 – 98 %	**95.443 %**
Myrcene	1.00 – 2.50 %	**1.785 %**
Sabinene	-	**0.734 %**
Alpha Pinene	0.00 – 8.0 %	**0.484 %**
Linalool	0.20 – 0.60 %	**0.295 %**
Decanal	0.20 – 0.60 %	**0.209 %**
Octanal	-	**0.149 %**
Delta-3-Carene	-	**0.127 %**
Beta Sinensal	-	**0.114 %**
Geranial	-	**0.073 %**
Octanol	-	**0.056 %**
Alpha Sinensal	-	**0.050 %**
Neral	-	**0.044 %**
Beta Pinene	0.00 – 1.0 %	**0.039 %**
Alpha Phellandrene	-	**0.039 %**
Nonanal	-	**0.031 %**
Valencene	-	**0.031 %**
Alpha Terpineol	-	**0.030 %**

Handling & Storage

- **Usage Precautions:** Apply good manufacturing practice & industrial hygiene practices, ensuring proper workplace ventilation. Observe good personal hygiene and do not eat, drink, or smoke while handling.
- **Storage Precautions:** Store in tightly closed original container, in a cool, dry & ventilated area away from heat sources & protected from light. Keep air contact to a minimum.

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: 17 April 2026