

CERTIFICATE OF ANALYSIS

Organic Essential Oil of Red Mandarin from Italy
100% pure and natural

Botanical name : *Citrus reticulata Blanco*
Commercial name : Organic Red Mandarin
Batch number : **2400107**
Geographical origin : Italy
Production date : December 2023

Physical and chemical data :

	Standards	Results of analysis
Appearance	Mobile liquid	Conform
Colour	Yellow orangey to red	Conform
Odour	Characteristic, fresh, citric note	Conform
Specific gravity at 20°C	0.840 to 0.870	0.8521
Refractive index at 20°C	1.465 to 1.480	1.4756
Optical rotation at 20°C	+60° to +85°	+73.50°
Flash point	+45°C to +55°C	

Table of components (1) :

Components	Contents
Alpha-pinene	2.23%
Alpha-thujene	0.81%
Beta-pinene	1.44%
Sabinene	0.21%
Myrcene	1.97%
Alpha-terpinene	0.37%
Limonene	73.18%
Beta-phellandrene	0.19%
Gamma-terpinene	16.62%
Trans-beta-ocimene	0.05%
Para-cymene	0.43%
Terpinolene	0.82%
Octanal	0.11%
Nonanal	0.02%
Trans-Sabinene Hydrate	0.01%
Citronellal	0.03%
Decanal	0.12%
Cis-Sabinene Hydrate	0.01%
Beta-caryophyllene + Terpinene-4-ol	0.09%
Alpha-terpineol	0.21%
Alpha-selinene	0.02%

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Table of components (2) :

Components	Contents
Trans-trans-alpha-farnesene	0.21%
Methyl-N-Methyl Anthranilate	0.45%
Thymol	0.05%
Alpha-sinensal	0.28%
TOTAL	99.93%