

## 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 : 180-152  
Geographical origin : Italy

Physical and chemical data :

	Standards	Results of analysis
Appearance	liquid	Conform
Colour	yellow orangey to red	Conform
Odour	characteristic, fresh, citric note	Conform
Specific gravity at 20° C	0.840 to 0.870	0.8458
Refractive index at 20° C	1.470 to 1.480	1.4750
Optical rotation at 20° C	+64° to +85°	N.D.
Flash point	+49°C	

Table of components (1) :

Components	Contents
$\alpha$ -pinene	3.01%
$\alpha$ -thujene	0.78%
Camphene	0.02%
$\beta$ -pinene	1.21%
Sabinene	0.28%
Myrcene	1.80%
$\alpha$ -terpinene	0.40%
Limonene	70.72%
$\beta$ -phellandrene	0.22%
Cineol-1.8 : eucalyptol	0.01%
$\gamma$ -terpinene	16.92%
E- $\beta$ -ocimene	0.02%
Para-cymene	0.48%
Terpinolene	0.97%
Octanal	0.11%
Nonanal	0.03%
Decanal	0.10%
Linalol	0.12%
Trans-sabinene hydrate	0.03%
Octanol	0.02%

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Table of components (2) :

Components	Contents
$\beta$ -caryophyllene	0.20%
4-Terpineol	0.09%
$\alpha$ -terpineol	0.17%
Farnesene	0.16%
Citronellol	0.02%
Perillaldehyde	0.03%
E-dodec-2-en-1-al	0.02%
Dimethyl anthranilate	0.37%
Thymol	0.06%
$\alpha$ -sinensal	0.31%
TOTAL	99.82%