

## CERTIFICATE OF ANALYSIS

Organic Essential Oil of Neroli from Morocco  
100% pure and natural

Botanical name : *Citrus aurantium L. ssp. Amara var. pumilia*  
Commercial name : Organic Neroli  
Batch number : **2000573**  
Geographical origin : Morocco  
Production date : April 2020

### Physical and chemical data :

	Standards	Results of analysis
<b>Appearance</b>	Liquid	Conform
<b>Colour</b>	Pale yellow to amber yellow	Conform
<b>Odour</b>	Flowery, fresh, characteristic	Conform
<b>Specific gravity at 20°C</b>	0.860 to 0.885	0.8726
<b>Refractive index at 20°C</b>	1.460 to 1.480	1.4751
<b>Optical rotation at 20°C</b>	0° to +20°	+10.65°
<b>Flash point</b>	+50°C to +59°C	

### Table of components (1) :

Components	Contents
$\alpha$ -thuyène	0.02%
$\alpha$ -pinène	0.59%
Camphène	0.04%
Sabinène	1.14%
$\beta$ -pinène	9.57%
Myrcène	1.84%
Trans-déhydroxy-oxyde de linalol	0.03%
$\alpha$ -terpinène	0.04%
Para-cymène	0.07%
Limonène	19.09%
$\beta$ -phellandrène	0.18%
Z- $\beta$ -ocimène	0.64%
E- $\beta$ -ocimène	7.79%
$\gamma$ -terpinène	0.08%
Cis-oxyde de linalol	0.03%
Linalol	35.88%
E-4,8-diméthylnona-1,3,7-triène	0.02%
Allo-ocimène	0.04%
Trans-sabinol	0.02%
Terpinène-4-ol	0.16%
$\alpha$ -terpinéol	3.01%
Nérol	0.70%

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### **Table of components (2) :**

Components	Contents
Acétate de linalyle	2.71%
Géraniol	1.92%
Acétate de phényléthyle	0.03%
Géranial	0.04%
Acétate de bornyle	0.03%
Indole	0.22%
δ-élémente	0.06%
Acétate d'α-terpényle	0.11%
Anthranilate de méthyle	0.25%
Acétate de néryle	1.48%
Acétate de géranyle	2.94%
β-élémente	0.04%
β-caryophyllène	0.57%
α-trans-bergamotène	0.02%
Néryl acétone	0.04%
E-β-farnésène	0.11%
α-humulène	0.07%
Germacrène D	0.12%
Bicyclogermacrène	0.16%
δ-cadinène	0.02%
E-Nérolidol	3.28%
Oxyde de caryophyllène	0.03%
8-Heptadécène	0.06%
(2E,6E)-Farnésol	3.67%
(2E,6E)-Acétate de farnésyle	0.14%
n-Nonadécane	0.03%
n-Eicosane	0.02%
n-Hénécicosane	0.02%
Tricosane	0.13%
n-Tétracosane	0.01%
n-Pentacosane	0.08%
<b>TOTAL</b>	<b>99.39%</b>