



## CERTIFICATE OF ANALYSIS

**Product: Helichrysum Essential oil**

**INCI Name: Helichrysum Italicum Flower oil**

**CAS No: 8023-95-8 / 90054-56-0 EINECS No: - / 289-918-2**

**Countries of Origin: Bosnia and Herzegovina**

**Batch Code: 106147**

Test	Result
Appearance	Liquid
Colour	Yellow
Odour	Characteristic
Specific Gravity at 20°C	0.88
Refractive Index at 20°C	1.479
Optical Rotation at 20°C	1.7
Solubility	Soluble in alcohol and fixed oils

### GCMS Profile

Chemical Name	Results (%)
$\alpha$ -Pinene	18.63
$\beta$ -Pinene	0.28
$\beta$ -Myrcene	0.09
$\alpha$ -Terpinene	0.14
p-Cymene	0.17
Limonene	1.66
Isobutyl angelat	0.25
$\gamma$ -Terpinene	0.39
$\alpha$ -Terpinolene	0.14
Linalol	0.71
Methyl butyrate	0.20
Fenchol	0.05
Trans pinocarveol	0.05
Mt=170, Dione	1.09
Borneol	0.08
Terpinen-4-ol	0.27
$\alpha$ -Terpineol	0.37
Nerol	0.39
3.5 Heptadione	0.08
Mt=184, Dione	0.39
Neryl acetate	5.37
$\alpha$ -Ylangene	0.31
$\alpha$ -Copaene	3.91
Italicene	5.83
Bergamotene cis- $\alpha$	1.41
$\beta$ -Caryophyllene	6.11
Bergamotene trans- $\alpha$	1.36

Mt=210, Italdion	1.69
Neryl propionate	0.66
$\gamma$ -Selinene	2.39
$\gamma$ -Curcumene	16.59
$\beta$ -Selinene	12.26
$\alpha$ -Selinene	5.43
Mt=224, Dione	1.12
$\delta$ -Cadinene	1.36

*Product is steam distilled from the organically grown flowering tops of the plant.*

*Uses: Aromatherapy, cosmetics.*

*Storage: Keep tightly closed, in a cool dry place away from heat, sunlight and moisture.*

**Manufacture Date: Nov 2018**

**Best Before: Nov 2021**

**Date Document Created: 06/03/2019**

**Revision Date: 26/06/2019 (Spec update)**

Shelf life of this product depends very much on storage conditions, particularly temperature and exposure to light and air.

Expiry date must be considered as subjective; the expiry date given here is based on the best of our knowledge and experience of the material when stored under recommended conditions in original unopened containers.

Due to the natural ingredients contained in many of our products, there may be a slight batch to batch variation in the colour, odour or consistency. However, we ensure that this does not affect the quality and efficiency of the products in any way.

We hereby certify that the above material meets the required specification and is released for free sale.

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