


## CERTIFICATE OF ANALYSIS

PRODUCT IDENTIFICATION	COMPANY IDENTIFICATION
<b>PRODUCT NAME :</b> Helichrysum (Italian) Organic - ESSENTIAL OIL <b>BOTANICAL NAME :</b> Helichrysum italicum <b>SYNONYM(S) :</b> Immortal	<b>COMPANY :</b> ZAYAT AROMA INC. <b>ADDRESS :</b> 1339 SHEFFORD, BROMONT (QC) J2L 1C9, CANADA <b>TELEPHONE :</b> 1.855.534.1671 <b>FAX :</b> 1.855.318.6124 <b>WEB :</b> WWW.ZAYATAROMA.COM <b>E-MAIL :</b> INFO@ZAYATAROMA.COM
<b>INCI NAME :</b> Helichrysum italicum flower oil <b>CAS TSCA :</b> 8023-95-8 <b>HS CODE :</b> 3301.29 <b>CAS EINECS :</b> 295-193-3 <b>EINECS :</b> 90045-56-0 <b>FEMA :</b> 2592 <b>COE :</b> N/A <b>COUNTRY OF ORIGIN :</b> France <b>FDA CODE :</b> N/A	Certified organic by Ecocert Canada 
<b>PRODUCTION TYPE :</b> Organic <b>PRODUCTION METHOD :</b> Steam distilled <b>PART DISTILLED :</b> Flowers <b>LOT NUMBER :</b> EAB435483FR34216A <b>PRODUCTION DATE :</b> July, 2016 <b>EXPIRATION DATE :</b> July, 2018	

PROPERTIES	SPECIFICATIONS	RESULTS
APPEARANCE	<i>Pale yellow to reddish-yellow liquid</i>	<i>Complies</i>
ODOR	<i>Characteristic aromatic odor.</i>	<i>Complies</i>
SOLUBILITY	<i>Soluble in alcohol and oils. Insoluble in water.</i>	<i>Complies</i>
SPECIFIC GRAVITY	<i>0.880 – 0.920 @ 20°C</i>	<i>0,897</i>
OPTICAL ROTATION	<i>-20.0° – +10° @ 20°C</i>	<i>-5°</i>
REFRACTIVE INDEX	<i>1.460 – 1.475 @ 20°C</i>	<i>1,467</i>
COMPOSITION	<i>α-Pinene (&lt;35%), neryl acetate (&lt;15%),            β-caryophyllene (&lt;10%), γ-curcumene,            β-selinene, caryophyllene,            cis-dihydro-occidentantol, nerol, neryl            propionate, ar-tunnerone, nervi            propionate, limonene (&lt;10%),            ar-curcumene and (E)-tagetone</i>	

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COMPONENTS	% TOTAL : 93.38
<i>n-Nonane</i>	0.02
<i>Alpha-Thuyène</i>	0.01
<i>Alpha-Pinène</i>	28.26
<i>Alpha-Fenchène</i>	0.01
<i>Camphène</i>	0.04
<i>Béta-Pinène</i>	0.06
<i>6-Méthyl-5-Heptène-2-one</i>	0.01
<i>Béta-Myrcène</i>	0.06
<i>2-Méthyle-Butyrate d'isopropyle</i>	0.01
<i>Octanal</i>	0.03
<i>Alpha-Terpinène</i>	0.09
<i>4-Méthoxy-Toluène</i>	0.01
<i>Para-Cymène</i>	0.03
<i>Limonène</i>	0.43
<i>1,8-Cinéole</i>	0.01
<i>Cis-Béta-Ocimène</i>	0.01
<i>Trans-Béta-Ocimène</i>	0.03
<i>Angélate d'isobutyle</i>	0.11
<i>Gamma-Terpinène</i>	0.09
<i>Alpha-Terpinolène</i>	0.06
<i>2,4-Diméthyle-3,5-Heptanedione</i>	0.07
<i>Linalol</i>	2.44
<i>Nonanaldéhyde</i>	0.06
<i>Fenchol</i>	0.03
<i>Trans-Pinocarvéol</i>	0.06
<i>Angélate d'isoamyle</i>	0.07
<i>Bornéol</i>	0.04
<i>1-Terpinène-4-ol</i>	0.07
<i>Alpha-Terpinéol</i>	0.13
<i>n-Dodécane</i>	0.01
<i>Décanaldéhyde</i>	0.09
<i>Nérol</i>	0.17
<i>Acétate de linalyle</i>	0.1
<i>2-Undécanone</i>	0.01
<i>n-Tridécane</i>	0.05
<i>Undécanal</i>	0.02
<i>Acétate de néryle</i>	3.85
<i>Alpha-Ylangène</i>	0.04
<i>Acide décanoïque</i>	0.04
<i>Isoitalicène</i>	1.26

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<i>Acétate de géranyle</i>	0.01	
<i>n-Tétradécane</i>	0.03	
<i>Italicène</i>	4.22	
<i>Dodécanaldéhyde</i>	0.01	
<i>Cis-Alpha-Bergamotène</i>	0.73	
<i>Béta-Caryophyllène</i>	9.06	
<i>Italidione I M210</i>	2.68	
<i>Propanoate de néryle</i>	0.58	
<i>Trans-Béta-Farnésène</i>	0.37	
<i>Alpha-Humulène</i>	0.2	
<i>Alloaromadendrène</i>	0.1	
<i>Alpha-Acoradiène</i>	0.38	
<i>Béta-Acoradiène</i>	0.42	
<i>Gamma-Curcumène</i>	29.42	
<i>Alpha-Curcumène</i>	3.16	
<i>Alpha-Muuroène</i>	0.02	
<i>Italidione II M224</i>	0.73	
<i>Béta-Bisabolène</i>	0.13	
<i>Béta-Curcumène</i>	0.78	
<i>Delta-Cadinène</i>	0.08	
<i>Béta-Sesquiphéllandrène</i>	0.08	
<i>Trans-Gamma-Bisabolène</i>	0.08	
<i>Italicène éther</i>	0.17	
<i>Trans-Alpha-Bisabolène</i>	0.14	
<i>Nérolidol</i>	0.14	
<i>Italidione III M238 (Stéréoisomère)</i>	0.16	
<i>Italidione III M238 (Stéréoisomère)</i>	0.13	
<i>Butanoate de géranyle</i>	0.12	
<i>Oxyde de caryophyllène</i>	0.21	
<i>Guaiol</i>	0.03	
<i>n-Hexadécane</i>	0.01	
<i>Copabornéol</i>	0.07	
<i>Rosifoliol</i>	0.07	
<i>Epi-Alpha-Cadinol</i>	0.01	
<i>Béta-Eudesmol + Alpha-Eudesmol</i>	0.16	
<i>Béta-Bisabolol</i>	0.37	
<i>Alpha-Bisabolol</i>	0.15	
<i>Pentadécanaldéhyde</i>	0.05	
<i>Acide tétradécanoïque</i>	0.02	
<i>Phytone</i>	0.01	
<i>Acide palmitique</i>	0.03	

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<i>16-Kaurène</i>	0.01	
<i>n-Alcane</i>	0.02	
<i>n-Alcane</i>	0.01	
<i>n-Alcane</i>	0.03	



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