



*Healing Body, Mind, and Spirit
with Pure Essential Oils Since 1995*

www.naturesgift.com

Certificate of Analysis: English Chamomile Essential Oil, *Chamæmelum nobile*.

Batch number: EC14.152

Part: Flower

P Reference: C126

Analysis: Classic

Shelf life: 1 year

Validated report by:

Daniel DANTIN

A handwritten signature in black ink, appearing to read "Daniel Dantin", is written over a horizontal line. The signature is enclosed within a hand-drawn oval.

(continued)



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GAS CHROMATOGRAPHY NORM NF ISO 11024

Analysis conditions :

CPG 7890 / MS 5975 AGILENT – Column : VF WAX polar 60 m × 0,25 mm × 0,5 µm

CPG 6890 FID AGILENT - Column : VF WAX polar 60 m × 0,25 mm × 0,5 µm

Temperature program : 6 mn to 60 °C –2 °C/mn→250 °C - 20mn to 250 °C

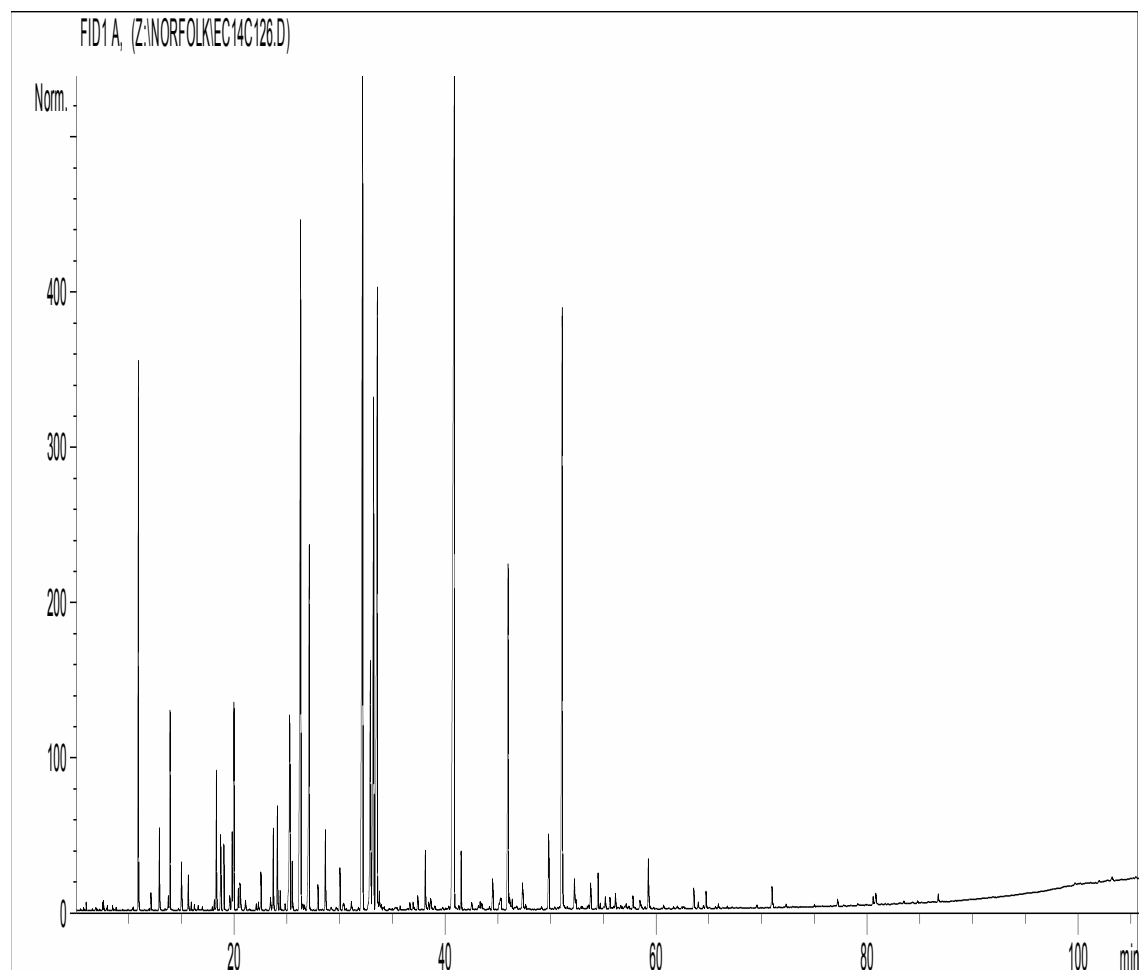
Carrier gas He : 23 psis/MS – 30 psis/FID

Sample injection / split : 1 µl of 10 % solution in hexane,

Mass range : 30 to 350, Oil components are identified by a combination of retention times
(our own database) and mass spectra library NKS 75 000 records,

Percentages are calculated from GC/FID peaks areas without using corrections factors,

CHROMATOGRAPHIC PROFILE (GC/FID)



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Peak	RT (min)	Compound name	%	Norm (%)	Allergens	(%)
1	5,7	PROPANAL, 2-METHYL	0,02			
2	6,0	1-OCTENE	0,03			
3	6,6	FURAN, 2-METHYL	0,01			
4	6,8	2-PROPENAL, 2-METHYL	0,01			
5	6,9	FURAN, 2,5-DIHYDRO	0,01			
6	7,5	BUTANAL, 2-METHYL	0,04			
7	7,6	ISOVALERALDEHYDE	0,06			
8	7,9	1-NONENE	0,01			
9	8,0	2-BUTANONE,3-METHYL	0,03			
10	8,5	FURAN, 2-ETHYL	0,03			
11	8,8	ALIPHATIC ESTER	0,02			
12	10,4	ETHYL ISOBUTYRATE	0,02			
13	10,5	TRICYCLEN	0,02			
14	10,9	α-PINENE	3,96	1,0 – 5,0		
15	12,1	ETHYL 2-METHYL BUTYRATE	0,12			
16	12,9	CAMPHERE	0,63			
17	13,4	ISOBUTANOL	0,02			
18	13,8	HEXANAL	0,12			
19	13,9	ISOBUTYL ISOBUTYRATE	1,46	2,0 – 9,0		
20	14,7	2-HEPTANONE-3-METHYL	0,02			
21	15,0	β-PINENE	0,39			
22	15,7	SABINENE	0,33			
23	15,9	ISOAMYL ACETATE	0,06			
24	15,9	PINADIENE	0,04			
25	16,6	PROPYL, 2-METHYL BUTYRATE	0,04			
26	17,0	BUTYL ISOBUTYRATE	0,02			
27	17,9	β-MYRCENE	0,03			
28	18,1	ETHYL ANGELATE	0,08			
29	18,3	ISOBUTYL METHACRYLATE	1,11	0,5 – 3,0		
30	18,7	ISOBUTYL 2-METHYL BUTYRATE	0,61			
31	19,0	ALLYL ETHYL BUTYRATE	0,51			
32	19,6	ISOBUTYL ISOVALERATE	0,14			
33	19,8	AMYL ISOBUTYRATE	0,70			
34	20,0	ISOAMYL ISOBUTYRATE	1,75	2,5 – 5,0		
35	20,4	ALIPHATIC ALCOHOL	0,17			
36	20,5	ISOAMYL ALCOHOL	0,20			
37	20,6	LIMONENE	0,20		0,20	
38	21,1	1,8-CINEOLE	0,10			
39	21,5	2-HEXENAL	0,01			
40	22,1	BUTYL METHACRYLATE	0,06			
41	22,3	FURAN, 2-AMYL	0,07			
42	22,5	3-METHYLPENTYL ACETATE	0,34			
43	23,4	PRENYL ACETATE	0,12			
44	23,7	ISOPROPYL ANGELATE + trans-β-OCIMENE	0,73			
45	24,1	ALLYL METHACRYLATE	0,91			

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46	24,3	PRENYLIC ESTER	0,17			
47	24,8	3-PENTEN-2-OL	0,06			
48	25,3	2-METHYLBUTYL METHACRYLATE + p-CYMENE	2,23	0,5 – 1,5		
49	25,5	2-METHYLBUTYL 2-METHYLBUTYRATE	0,49			
50	26,3	ISOBUTYL ANGELATE	9,00	30 – 45		
51	26,5	ISOAMYL ISOVALERATE	0,07			
52	26,7	BUTYL CAPROATE	0,05			
53	27,1	HEXYL ISOBUTYRATE	4,08			
54	27,9	PRENYL BUTYRATE	0,22			
55	28,6	1-PENTANOL 4-METHYL	0,70			
56	29,2	2-HEPTENAL	0,04			
57	29,6	HEXYL ESTER	0,04			
58	30,0	BUTYL ANGELATE	0,38			
59	30,4	ALLYLIC ESTER	0,11			
60	30,6	1-HEXANOL	0,01			
61	31,1	METHACRYLIC ESTER	0,09			
62	31,7	ISOBUTYL TIGLATE	0,03			
63	32,2	METHALLYL ANGELATE	11,38	6 – 10		
64	32,3	3-HEXEN-1-OL	0,01			
65	32,9	METHACRYLIC ESTER	3,23			
66	33,2	2-METHYLBUTYL ANGELATE	6,27	3 – 7		
67	33,5	ISOAMYL ANGELATE	8,19	12 - 22		
68	33,8	METHACRYLIC ESTER	0,22			
69	34,0	ANGELIC ESTER	0,05			
70	34,2	HEPTYL 2-METHYLPROPIONATE	0,03			
71	35,0	METHALLYLIC ESTER	0,03			
72	35,4	ANGELIC ESTER	0,03			
73	35,7	ALIPHATIC ALCOHOL	0,05			
74	36,6	METHACRYLIC ESTER	0,06			
75	36,9	ALIPHATIC ESTER	0,07			
76	37,4	METHALLYLIC ESTER	0,13			
77	38,1	METHALLYL ANGELATE ISOMER	0,55			
78	38,4	PRENYLIC ESTER	0,07			
79	38,6	METHALLYL ISOBUTYRATE	0,14			
80	39,0	PENTYL METHACRYLATE	0,06			
81	39,7	METHACRYLATE ESTER	0,04			
82	40,0	SESQUITERPENE	0,02			
83	40,2	ALKYL ANGELATE	0,02			
84	40,3	α -COPAENE	0,04			
85	40,9	METHYLAMYL ANGELATE C11	16,90			
86	41,3	ALIPHATIC ESTER	0,04			
87	41,5	METHYLPENTYL METHACRYLATE	0,53			
88	42,5	α -PINOCAMPHONE	0,08			
89	43,1	BENZALDEHYDE	0,04			
90	43,3	LINALOOL	0,08		0,08	
91	43,5	ALKYL ANGELATE	0,07			

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92	44,2	ALIPHATIC ESTER	0,03			
93	44,5	ISOPINOCAMPHONE	0,07			
94	44,9	METHALLYL METHACRYLATE	0,33			
95	45,3	2-BUTOXY-METHYLETHYL-2-OXOETHYL BUTYRAT.	0,26			
96	46,0	PINOCARVONE	3,87	1,3 – 6,0		
97	46,1	HEXENYL ESTER	0,14			
98	46,3	ALIPHATIC ESTER	0,10			
99	46,8	NOPINONE	0,09			
100	47,3	CAMPHENE HYDRATE	0,34			
101	47,6	TERPINENE-4-OL	0,04			
102	49,1	ALKYL ANGELATE	0,03			
103	49,6	Cis-p-2,8-MENTHADIEN-1-OL	0,02			
104	49,8	MYRTENAL	0,81			
105	50,4	CADINADIENE ISOMER	0,03			
106	50,7	SESQUITERPENE	0,04			
107	51,0	Trans-PINOCARVEOL	7,56	2,0 – 7,0		
108	51,2	E-β-FARNESENE	0,05			
109	51,4	MENTHADIENOL ISOMER	0,02			
110	51,6	trans-p-2,8-MENTHADIEN-1-OL	0,07			
111	52,3	BUTYRIC ESTER	0,33			
112	52,4	Trans-VERBENOL	0,09			
113	52,9	γ-CURCUMENE	0,02			
114	53,0	γ-MUUROLENE	0,02			
115	53,5	α-TERPINEOL	0,03			
116	53,6	TERPENIC ACETATE	0,04			
117	53,8	BORNEOL	0,26			
118	54,5	GERMACRENE D	0,37			
119	54,7	Cis-p-MENTHA-1,2-DIEN-8-OL	0,06			
120	55,2	β-SELINENE	0,16			
121	55,6	FURANIC COMPOUND	0,13			
122	56,2	α-FARNESENE	0,15			
123	56,6	SESQUITERPENE Mw=202	0,09			
124	57,2	MYRTENYL BUTYRATE	0,10			
125	57,4	γ-CADINENE	0,03			
126	57,8	β-SESQUIPHELLANDRENE	0,16			
127	58,0	α-CURCUMENE	0,03			
128	58,4	METHYLENEBUTANOATE 3-HYDROXY-ISOBUTYL	0,08			
129	58,5	PHENYLMETHYL ISOBUTYRATE	0,08			
130	58,9	TERPENIC ESTER	0,03			
131	59,3	MYRTENOL	0,54			
132	59,5	Trans-p-MENTHA-1,8-DIEN-2-OL	0,04			
133	59,8	NERYL BUTYRATE	0,03			
134	60,7	2,4-DECADIENAL	0,04			
135	61,7	Trans-CARVEOL	0,02			
136	62,0	GERANIOL	0,04		0,04	
137	62,4	p-CYMENE-8-OL	0,02			

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138	62,6	TERPENIC ESTER	0,03			
139	63,5	2-HYDROXY-2-METHYLBUT-3-ENYL ANGELATE	0,21			
140	64,0	TERPENIC ESTER	0,07			
141	64,5	ALIPHATIC ESTER	0,03			
142	64,7	ISOPENTYL-3-HYDROXY-2-METHYLENEBUTENOAT.	0,20			
143	65,9	ALIPHATIC COMPONENT	0,05			
144	66,8	ALIPHATIC ESTER	0,02			
145	67,2	TERPENIC ESTER	0,02			
146	71,0	AROMATIC COMPOUND	0,26			
147	72,3	ALIPHATIC ESTER	0,04			
148	75,0	SESQUITERPENOL	0,02			
149	77,2	PENTADECANONE TRIMETHYL	0,07			
150	80,6	DEHYDROVIRIDIFLOROL	0,10			
151	80,8	MATRICARIA METHYL ESTER Mw=174	0,16			
152	83,5	LACHNOPHYLLUM METHYL ESTER Mw=176 ISOM.	0,03			
153	84,8	LACHNOPHYLLUM METHYL ESTER Mw=176 ISOM.	0,02			
154	86,7	DEHYDROMATRICARIA METHYL ESTER Mw=174	0,08			
155	102,0	ALIPHATIC ESTER	0,03			
156	103,2	ALIPHATIC ALDEHYDE	0,06			
		TOTAL	99,95		0,32	

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