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# Certificate of Analysis & Gas Chromatography

## Organic Helichrysum Essential Oil

(*Helichrysum italicum*)

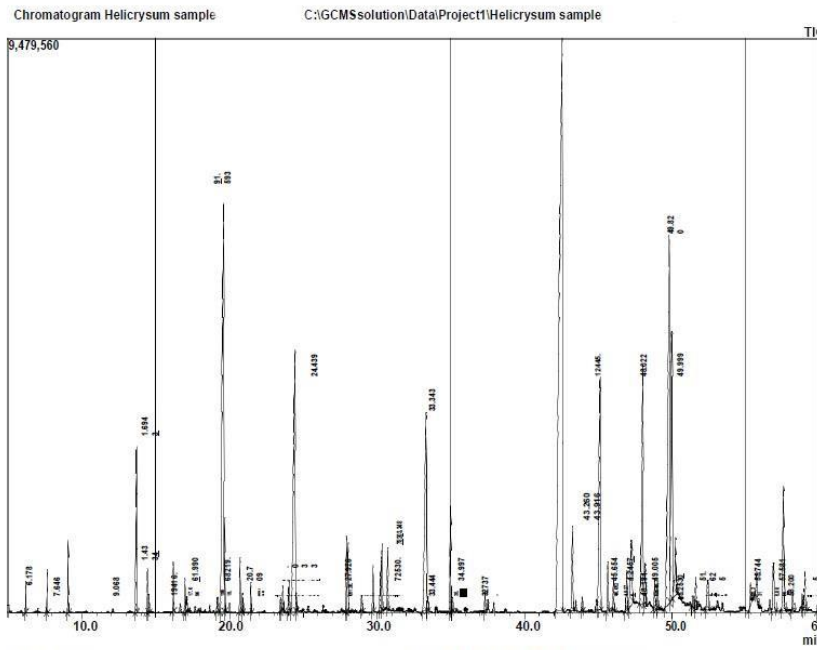
Batch number: 160922-1      Origin: Bulgaria

Sample Information

Analyzed : 7/28/2022 5:02:21 AM  
Sample Type : Essential Oil  
Sample Name : Helichrysum sample

Injection Volume : 1.00  
Data File : C:\GCMSsolution\Data\Project1\Helichrysum sample

Peak Report TIC	Area%
6.178 3-PENTANONE, 2-METHYL-	0.195
7.646 2-METHYLHEPT-2-ENE	0.303
9.068 3-Hexanone, 4-methyl-[RT15.154, P1859]	0.556
13.694 Pinene <alpha>	1.887
14.433 Fenchene <alpha> [RT23.256, A1945]	0.433
14.535 Camphene [RT 23.475, A1 954]	0.173
16.194 Pinene <beta>	0.508
16.990 Myrcene [RT 26.64 A1 990]	0.377
17.096 5-ISOPRENYL-2-METHYL-2-VINYLTETR	0.173
19.196 Cymene <para>	0.213
19.593 Limonene	9.127
19.682 1,8-cineole	0.858
20.709 Ocimene <E-beta> [RT31.251, R11044]	0.602
20.886 Isobutyl angelate[RT31.886, A11045]	0.191
21.456 Terpinene <gamma>	0.319
23.461 Terpinolene	0.153
23.624 2-Nonanone	0.334
24.033 2,4-Dimethyl-heptane-3,5-dione	0.411
24.439 Linalool	6.670
24.533 Butanoic acid, 2-methyl-, 2-methylbutyl ester	0.204
27.926 Isoamyl tiglate[RT33.725, A11148]	0.952
28.051 2H-Pyran, 3,6-dihydro-4-methyl-2(2-methyl-1	0.906
28.953 Isobornyl acetate [RT40.600, A1283]	0.270
29.735 Terpinen-4-ol [RT41.860, A11177]	0.601
30.278 8-Hydroxy-2,2-dimethyl-dec-5-en-3-one	0.967
30.348 2,2-Dimethylpropanoic anhydride	0.780
30.725 Terpineol <beta>	0.753
33.343 Nerol[RT45.229, A11227]	4.981
33.444 Heptanoic acid, anhydride	0.203
34.997 Linalyl acetate	1.590
35.097 1-Propoxypropan-2-yl 2-methylbut-2-enoate	0.162
37.327 Lavandulyl acetate[RT49.598, A1288]	0.265
42.564 Neryl acetate	25.371
43.260 Italicene[RT58.431, A11405]	1.277
43.916 Bicyclo[3.1.1]hept-2-en-6-ol, 2,7,7-trimethyl-,	0.157
45.124 Italicene[RT58.431, A11405]	4.507
45.554 Bergamotene <cis-alpha> [RT58.811, A11411]	0.595
46.052 Caryophyllene	0.471
46.927 Bergamotene <cis-alpha> [RT58.811, A11411]	0.563
47.245 2,5,7-trimethyldec-2-en-6,8-dione [RT60.076,	1.889
48.022 Neryl propionate[RT61.013, A11452]	4.863
48.194 Farnesene <E-, beta>	0.572
48.836 Acoradiene <beta>[RT62.499, A11469]	0.453
49.005 Acorenol <alpha> [RT73.00, A11632]	0.472
49.820 Curcumene <gamma> [RT63.187, A11481]	9.175
49.999 Ar-Curcumene	5.438
50.253 2,5,7-trimethyldec-2-en-6,8-dione [RT60.076,	1.080
51.418 Bisabolene <beta>	0.197
51.625 .beta.-curcumene	0.446
52.433 Ucaraway	0.529
55.331 Neryl (S)-2-methylbutanoate	0.359
55.744 Unidentified diketone@68.846	0.434
56.895 5-Zulenemethanol, 1,2,3,4,5,6,7,8-octahydro-	0.835
57.581 Rosifolol [RT71.369, A11600]	2.153
58.200 Nerolidol <trans>[RT68.336, A11561]	0.280
58.834 .gamma.-eudesmol	0.191
58.997 Eudesmol <beta>[RT73.135, A11649]	0.560
59.942 2-Naphthalenemethanol, decahydro- .alpha.-alp	0.831
60.094 2-Naphthalenemethanol, 1,2,3,4,4a,5,5a,8a-octa	0.517
60.812 Elemol	0.167
	100.000



Comments:      Typical Ranges of Main Components: