

Certificate of Analysis

Analysed essential oil : Laurel

Analysis date : January 7th 2013

Batch : 003SF303

Shelf life : February 2016

❖ General description

| | | | |
|---------------|-----------------------|--------|---------|
| Essential oil | Laurel | Origin | Albania |
| Latin name | <i>Laurus nobilis</i> | | |

❖ Organoleptic characteristics

| | |
|------------|-------------------------|
| Appearance | Clear and mobile liquid |
| Colour | Almost colourless |
| Odour | Characteristic |

❖ Physico-chemical characteristics

| | Results (at 20°C) | Technical specifications | | | | |
|------------------|----------------------|--------------------------|---|-------------------|---|--------|
| Specific gravity | 0.912 | 0.850 | < | d | < | 0.950 |
| Refractive index | 1.4651 | 1.4380 | < | RI | < | 1.4750 |
| Optical rotation | -17.20° | -20° | < | $[\alpha]^{20}_d$ | < | -5° |

❖ Volatile elucidation

GC : Perkin Elmer – Clarus 500

Column : Elite - 1, 30 m, Ø 0.25 mm, 0.25 µm df

Injection : split

Detector : FID

Carrier gas : H₂

⇒ See Chromatogram : non-polar column

Date : 2014-11-27

Software Version : 6.2.0.0:B27
Sample Name : Laurier Noble
Instrument Name : CLARUS 500
Rack/Vial : 0/7
Sample Amount : 1.000000
Cycle : 7

Date : 07/01/2013 11:38:43
Data Acquisition Time : 04/01/2013 03:59:48
Channel : A
Operator : Davenne
Dilution Factor : 1.000000

Result File :
Sequence File : C:\Sequences\CPG\2013\130103.seq

Rapport d'analyse

colonne apolaire

| Pic # | Component Name | TR [min] | Area [%] |
|-------|--------------------------|----------|----------|
| 1 | | 5.42 | 0.05 |
| 2 | | 7.05 | 0.10 |
| 3 | | 9.17 | 0.05 |
| 4 | | 9.82 | 0.04 |
| 5 | thujene <alpha> | 9.99 | 0.18 |
| 6 | pinene <alpha> | 10.25 | 4.45 |
| 7 | camphene | 10.75 | 0.49 |
| 8 | sabinene | 11.70 | 7.99 |
| 9 | pinene <beta> | 11.86 | 4.39 |
| 10 | | 12.25 | 0.06 |
| 11 | myrcene | 12.47 | 0.71 |
| 12 | | 12.77 | 0.08 |
| 13 | phellandrene <alpha> | 12.99 | 0.28 |
| 14 | carene <delta-3> | 13.34 | 0.07 |
| 15 | terpinene <alpha> | 13.54 | 0.49 |
| 16 | cymene <p> | 13.68 | 1.26 |
| 17 | limonene + cineole <1.8> | 14.04 | 48.24 |
| 18 | ocimene <(Z)-beta> | 14.42 | 0.33 |
| 19 | ocimene <(E)-beta> | 14.90 | 0.27 |
| 20 | terpinene <gamma> | 15.35 | 1.72 |
| 21 | | 16.43 | 0.08 |
| 22 | terpinolene | 16.68 | 0.18 |
| 23 | | 16.82 | 0.05 |
| 24 | linalool | 16.98 | 4.24 |
| 25 | | 17.89 | 0.06 |
| 26 | | 18.60 | 0.12 |
| 27 | borneol | 19.74 | 0.20 |
| 28 | terpinen-4-ol | 20.36 | 2.42 |
| 29 | | 20.72 | 0.04 |
| 30 | terpineol <alpha> | 20.86 | 1.95 |
| 31 | | 21.04 | 0.14 |
| 32 | nerol | 22.67 | 0.40 |
| 33 | linalool acetate | 24.01 | 0.21 |
| 34 | | 24.51 | 0.03 |
| 35 | | 24.69 | 0.06 |
| 36 | bornyl acetate | 25.16 | 0.42 |
| 37 | | 25.48 | 0.12 |
| 38 | | 26.48 | 0.24 |
| 39 | | 26.77 | 0.08 |
| 40 | eugenol | 27.78 | 0.79 |
| 41 | terpinyl acetate <alpha> | 27.94 | 12.95 |
| 42 | | 28.46 | 0.20 |
| 43 | methyl eugenol | 29.61 | 2.77 |
| 44 | | 30.12 | 0.20 |
| 45 | caryophyllene <(E)> | 31.23 | 0.23 |
| 46 | | 32.54 | 0.05 |
| 47 | | 33.30 | 0.08 |
| 48 | | 33.58 | 0.05 |
| 49 | | 34.21 | 0.05 |
| 50 | cadinene <gamma> | 34.81 | 0.07 |
| 51 | cadinene <delta> | 35.21 | 0.09 |
| 52 | | 35.53 | 0.03 |
| 53 | | 36.92 | 0.06 |
| 54 | caryophyllene oxide | 37.12 | 0.08 |
| | | | 100.00 |

Chromatogram

Sample Name : Laurier Noble Sample #: 003SF303 Page 1 of 1
FileName : C:\Data\Colonne Apolaire\Huiles Essentielles\Laurier2013\laurier 130103.raw
Date : 07/01/2013 11:38:45
Method : Laurier Noble.mth Time of Injection: 04/01/2013 03:59:48
Start Time : 0.00 min End Time : 82.00 min Low Point : -47.29 mV High Point : 993.88 mV
Plot Offset: -47.29 mV Plot Scale: 1041.2 mV

