

Sample Information

Sample Name: Thyme (ct. Linalool) EO

Botanical Name: Thymus vulgaris

Lot Number: FRX19-XX

Production Method: Steam distilled

Sample Type: EO - Single

Country of Origin: France

Analysis Date: 6/10/2024

Date of Distillation: June 2024

GC/MS

Inst. ID: Shimadzu GCMS-QP2010Ultra

Injection Type: Split

Split Ratio: 24.4

Column Type: ZB-5

Injection Volume: 0.1 µL

Temperature Program: 2C/min

Physical Data

ANALYSIS

Optical Rotation @20°C

Refractive Index @20°C

Specific Gravity @20°C

METHOD

USP[781]

USP[831]

USP[841]

RESULTS

-17.00

1.46110

0.88480

| Ret. Time | Component | Ret. Idx. | Conc. % | |
|-----------|---------------------------------|-----------|---------|------|
| 11.532 | Tricyclene | 921 | 0.06% | |
| 12.082 | alpha-Pinene | 932 | 0.54% | |
| 12.877 | alpha-Fenchene | 946 | 0.04% | |
| 12.973 | Camphene | 948 | 1.35% | |
| 14.224 | Sabinene | 971 | 0.01% | |
| 14.519 | beta-Pinene | 976 | 0.04% | |
| 15.146 | Myrcene | 988 | 0.08% | |
| 16.197 | alpha-Phellandrene | 1006 | 0.01% | |
| 16.844 | alpha-Terpinene | 1016 | 0.01% | |
| 17.326 | para-Cymene | 1024 | 0.15% | |
| 17.621 | Limonene | 1028 | 0.09% | IFRA |
| 17.800 | 1,8-Cineole | 1031 | 0.64% | |
| 18.024 | cis-beta-Ocimene | 1034 | 0.04% | |
| 18.701 | trans-beta-Ocimene | 1045 | 0.05% | |
| 19.471 | gamma-Terpinene | 1057 | 0.02% | |
| 20.273 | cis-Linalool oxide (furanoid) | 1069 | 0.08% | |
| 21.340 | trans-Linalool oxide (furanoid) | 1085 | 0.18% | |
| 22.447 | Linalool | 1102 | 76.61% | IFRA |
| 22.634 | Nonanal | 1105 | 0.06% | |
| 23.569 | endo-Fenchol | 1119 | 0.01% | |
| 25.451 | Camphor | 1146 | 1.54% | |
| 26.572 | Unidentified | 1162 | 0.01% | |
| 27.148 | Borneol | 1171 | 0.49% | |
| 27.748 | Terpinen-4-ol | 1180 | 0.06% | |
| 28.260 | Unidentified | 1187 | 0.01% | |
| 28.543 | Hexyl butyrate | 1191 | 0.01% | |
| 28.750 | alpha-Terpineol | 1194 | 0.14% | |
| 32.186 | Unidentified | 1245 | 0.01% | |
| 32.515 | Linalyl acetate | 1249 | 13.64% | |
| 33.252 | Unidentified | 1260 | 0.03% | |
| 34.797 | Bornyl acetate | 1283 | 0.32% | |
| 35.729 | Carvacrol | 1297 | 0.04% | |
| 39.712 | Neryl acetate | 1357 | 0.01% | |
| 40.822 | alpha-Copaene | 1374 | 0.03% | |
| 40.996 | Geranyl acetate | 1377 | 0.07% | |
| 41.719 | beta-Elemene | 1388 | 0.01% | |
| 43.622 | beta-Caryophyllene | 1418 | 2.5% | |
| 44.480 | trans-alpha-Bergamotene | 1432 | 0.04% | |
| 45.728 | trans-beta-Farnesene | 1452 | 0.02% | |
| 45.855 | alpha-Humulene | 1454 | 0.05% | |

| Ret. Time | Component | Ret. Idx. | Conc. % |
|-----------|---------------------|-----------|---------|
| 47.074 | Unidentified | 1473 | 0.01% |
| 47.447 | Germacrene D | 1479 | 0.48% |
| 47.909 | Unidentified | 1487 | 0.01% |
| 49.114 | beta-Bisabolene | 1506 | 0.02% |
| 49.714 | delta-Cadinene | 1516 | 0.01% |
| 53.467 | Caryophyllene oxide | 1580 | 0.39% |

Total Identified Compounds **99.94 %**

