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GC/MS & COA

Ho Wood Oil – 180923875

September, 2018

ANALYSIS

Type: Essential oil

Source: Cinnamomum Camphora ct. linalool

Analysis date: September, 2018

Physical aspect: Greenish yellow to colorless liquid

CONCLUSION

No adulterant, contaminant or diluent has been detected using this method. This oil nearly complies with

ISO standard for Ho Wood Oil.

Physico-Chemical Properties: -

| Properties | Results |
|-------------------------|----------|
| Refractive Index @ 20°C | 1.4612 |
| Optical Rotation @20°C | - 17.55° |
| Specific Gravity @ 25°C | 0.859 |

| Identification | DB-5 (%) | DB-WAX (%) | Classe |
|-----------------------------|---------------|---------------|------------------------|
| α -Pinene | tr | tr | Monoterpene |
| Sabinene | tr | 0.01 | Monoterpene |
| Myrcene | 0.01 | 0.01 | Monoterpene |
| α -Terpinene | tr | tr | Monoterpene |
| para-Cymene | tr | 0.03 | Monoterpene |
| Limonene | 0.01* | 0.01 | Monoterpene |
| 1,8-Cineole | [0.01]* | tr* | Monoterpenic ether |
| β -Phellandrene | [0.01]* | [tr]* | Monoterpene |
| (Z)- β -Ocimene | 0.01* | 0.01* | Monoterpene |
| Benzyl alcohol | [0.01]* | tr | Simple phenolic |
| (E)- β -Ocimene | 0.05 | 0.02 | Monoterpene |
| γ -Terpinene | tr | [0.01]* | Monoterpene |
| cis-Sabinene hydrate | 0.21 | 0.76* | Monoterpenic alcohol |
| cis-Linalool oxide (fur.) | 0.20 | 0.20 | Monoterpenic alcohol |
| Octanol | 0.05* | [97.68] | Aliphatic alcohol |
| Fenchone | [0.05]* | 0.06 | Aliphatic alcohol |
| para-Cymenene | 0.05* | 0.04 | Monoterpene |
| Terpinolene | [0.05]* | 0.01 | Monoterpene |
| trans-Linalool oxide (fur.) | 0.52* | [0.76]* | Monoterpenic alcohol |
| ortho-Guaiacol | [0.52]* | 0.02 | Simple phenolic |
| Linalool | 97.82* | 97.68 | Monoterpenic alcohol |
| endo-Fenchol | [97.82]* | 0.13 | Monoterpenic alcohol |
| α -Thujone | [97.82]* | 0.02 | Monoterpenic ketone |
| α -Campholenal | 0.05 | 0.05 | Monoterpenic aldehyde |
| cis-Limonene oxide | 0.01 | 0.01 | Monoterpenic ether |
| allo-Ocimene | 0.02 | 0.02 | Monoterpene |
| trans-Limonene oxide | 0.02 | 0.02 | Monoterpenic ether |
| Camphor | 0.05 | 0.05 | Monoterpenic ketone |
| Cryptone | 0.01 | 0.01 | Normonoterpenic ketone |
| Hodiendiol | 0.02 | 0.02 | Monoterpenic alcohol |
| Dodecane | 0.18 | 0.17 | Alkane |
| Eugenol | 0.01 | 0.03 | Phenylpropanoid |
| Total identified | 99.30% | 99.37% | |

*: Two or more compounds are coeluting on this column

[xx]: Duplicate percentage due to coelutions, not taken account in the identified total

tr: The compound has been detected below 0.005% of total signal.

Note: no correction factor was applied

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