



NHR ORGANIC OILS
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Certificate of Analysis & Gas Chromatography
Organic Tea Tree Essential Oil
(Melaleuca alternifolia)

PRODUCT NAME: TEA TREE ESSENTIAL OIL ORGANIC
BATCH NUMBER: 241023-10
PRODUCT INCI: MELALEUCA ALTERNIFOLIA LEAF OIL
ORIGIN: AUSTRALIA
CAS NUMBER: 85085-48-9 / 8022-72-8 / 68647-73-4
EINECS NUMBER: 285-377-1

ANALYTICAL DETAILS	RANGE	RESULTS
APPEARANCE	LIQUID	-
COLOUR	COLORLESS – PALE YELLOW	-
ODOUR	CHARACTERISTIC	-
SPECIFIC GRAVITY @ 20°C	0.885 – 0.906	0.8919
REFRACTIVE INDEX @ 20°C	1.470 – 1.482	1.47814
OPTICAL ROTATION (°C)	+5.0 TO +15.0	+8.58
1,8-CINEOLE CONTENT (%)	MAX 5.0	2.507
TERPINENE-4-OL (%)	MIN 35.0	36.496

STORAGE CONDITIONS
STORE IN A COOL DRY PLACE AWAY FROM HEAT & SUNLIGHT

*The attached information is considered to be correct at the time the client received this information.
Please be aware that detail can change and we encourage clients to update their records with NHR Organic Oils regularly.
The information is not and should not be considered a guarantee or warranty, or a part of our contractual or other legal obligations.*

GC analysis:

Tr	N° CAS	Composés	% Fid
10.73	2867-05-2	Alpha-Thujène	0.982
11.01	80-56-8	Alpha-Pinène	2.559
11.61	79-92-5	Camphène	0.009
12.45	3387-41-5	Sabinène	0.237
12.64	127-91-3	Béta-Pinène	0.768
13.04	123-35-3	Myrcène	0.830
13.58	499-97-8	Para-mentha-1(7),8-diène	0.007
13.66	99-83-2	Alpha-Phellandrène	0.575
14.09	99-86-5	Alpha-Terpinène	10.880
14.33	99-87-6	Para-Cymène	1.369
14.48	138-86-3	Limonène	0.905
14.55	555-10-2	Béta-Phellandrène	1.056
14.62	470-82-6	Eucalyptol	2.507
15.06	3779-61-1	(E)-Béta-Ocimène	0.009
15.57	99-85-4	Gamma-Terpinène	22.343
15.95	17699-16-0	Cis-Hydrate de Sabinène (IPP vs. OH)	0.006
16.42	586-62-9	Terpinolène	4.265
16.59	1195-32-0	Para-Cyménène	0.030
16.89	78-70-6	Linalol	0.055
16.99	15826-82-1	Trans-Hydrate de Sabinène (IPP vs. OH)	0.005
17.75	29803-82-5	Cis-Para-Menth-2-ène-1-ol	0.168
18.35	29803-81-4	Trans-Para-Menth-2-ène-1-ol	0.115
19.69	562-74-3	Terpinène-4-ol	36.496
19.76	4371-50-0	Para-Cymèn-9-ol	0.033
20.01	98-55-5	Alpha-Terpinéol	2.057

Tr	N° CAS	Composés	% Fid
20.05	34350-53-3	Cis-Pipéritol	0.045
20.40	16721-39-4	Trans-Pipéritol	0.056
21.76	89-81-6	Pipéritone	0.013
22.37	-	1,4-Dihydroxy-P-Menth-2ène	0.013
23.89	32531-56-9	Bicycloélémente	0.240
24.29	17699-14-8	Alpha-Cubébène	0.084
24.97	95910-36-4	Isolédène	0.096
25.10	3856-25-5	Alpha-Copaène	0.248
25.17	-	Hydrocarbure Sesquiterpénique Masse Molaire 204	0.042
25.45	515-13-9	Béta-Elémène	0.052
25.60	-	Hydrocarbure Sesquiterpénique Masse molaire 204	0.043
25.67	93-15-2	Méthyl Eugénol	< 0.010
25.97	489-40-7	Alpha-Gurjunène	0.516
26.09	489-29-2+-	Béta-Maaliène+Hydrocarbure Sesquiterpénique Masse molaire 204	0.040
26.13	-	Hydrocarbure Sesquiterpénique Masse molaire 204	0.044
26.32	87-44-5	Béta-Caryophyllène	0.732
26.50	-	Hydrocarbure Sesquiterpénique Masse molaire 204	0.083
26.61	-	Hydrocarbure Sesquiterpénique Masse molaire 204	0.033
26.71	489-28-1	Alpha-Maaliène	0.094
26.82	489-39-4	Aromadendrène	1.769
26.98	-	Hydrocarbure Sesquiterpénique Masse molaire 204	0.229
27.06	157374-44-2	Cis-Muurolo-3,5-Diène	0.225
27.25	6753-98-6	Alpha-Humulène	0.136
27.37	25246-27-9	Allo-Aromadendrène	0.692
27.62	20085-11-4	Trans-Cadina-1(6),4-diène	0.396
27.64	30021-74-0	Gamma-Muuroloène	0.118

Tr	N° CAS	Composés	% Fid
28.00	28624-28-4	Delta-Sélinène	0.146
28.13	21747-46-6	Viridiflorène	1.308
28.18	54324-03-7	Trans-Muurola-4(14),5-Diène	0.094
28.26	24703-35-3	Bicyclogermacrène	1.269
28.41	-	Hydrocarbure Sesquiterpénique Masse molaire 204	0.066
28.66	39029-41-9	Gamma-Cadinène	0.022
28.76	483-76-1	Delta-Cadinène	1.155
28.87	72937-55-4	Cis-Calaménène	0.091
28.89	41929-05-9	Zonarène	0.246
29.13	38758-02-0	Trans-Cadina-1,4-diène	0.186
29.92	-	Sesquiterpène oxygéné Masse molaire 220	0.054
30.13	5986-49-2	Palustrol	0.049
30.28	6750-60-3	Spathulénol	0.039
30.50	51371-47-2+-	Globulol + Sesquiterpène oxygéné Masse molaire 222!	0.207
30.72	552-02-3	Viridiflorol	0.167
30.98	63891-61-2	Rosifoliol	0.074
31.38	15051-81-7	10-Epi-Gamma-Eudesmol	0.077
31.44	73365-77-2	1,10-Di-Epi-Cubénol	0.107
31.57	-	Sesquiterpène oxygéné Masse molaire 220	0.023
31.78	19912-67-5	1-Epi-Cubénol	0.060
31.86	19735-97-3	Alpha-Muurolol	0.021
		Total	99.766