

# Rosalina Essential Oil

Laboratoire  
**Phyto**Chemia



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Date : June 20, 2017

#### SAMPLE IDENTIFICATION

Internal code : 17F08-FSE21-1-DM

Customer Identification : Rosalina - Lot #001155

Type : Essential oil

Source : *Melaleuca ericifolia*

Customer : Flowers Shining Everywhere Inc.



#### ANALYSIS

Method : PC-PA-001-15E06, "Analysis of the composition of a liquid essential oil by GC-FID" (in French).

Analyst : Sylvain Mercier, M. Sc., chimiste

Analysis date : 2017-06-20

Checked and approved by :



Alexis St-Gelais, M. Sc., chimiste 2013-174



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# IDENTIFIED COMPOUNDS

Identification	Column: BP5			Column: WAX			Molecular Class
	R.T.	R.I.	%	%	R.I.	R.T.	
Tricyclene	3.23	917	0.04	0.03	927	0.95	Monoterpene
$\alpha$ -Thujene	3.31	923	0.14	0.47	959	1.09	Monoterpene
$\alpha$ -Pinene	3.45	931	16.47	15.98	955	1.07	Monoterpene
Camphene	3.70*	946	0.26	0.23	1004	1.30	Monoterpene
$\alpha$ -Fenchene	3.70*	946	[0.26]	0.01	994	1.25	Monoterpene
Thuja-2,4(10)-diene	4.13	951	0.01	0.09	1062	1.78*	Monoterpene
Sabinene	4.13	971	0.09	[0.09]	1062	1.78*	Monoterpene
$\beta$ -Pinene	4.19	975	0.34	0.33	1045	1.63	Monoterpene
Myrcene	4.47	991	0.54	0.52	1119	2.33	Monoterpene
$\alpha$ -Phellandrene	4.75*	1007	0.16	0.13	1111	2.25	Monoterpene
$\Delta^3$ -Carene	4.75*	1007	[0.16]	0.02	1092	2.07	Monoterpene
$\alpha$ -Terpinene	4.94	1018	0.65	0.65	1126	2.41	Monoterpene
Limonene	5.23*	1034	22.93	21.63	1150	2.72	Monoterpene
para-Cymene	5.23*	1034	[22.93]	1.99	1210	3.50	Monoterpene
$\beta$ -Phellandrene	5.23*	1034	[22.93]	12.30	1153	2.77*	Monoterpene
1,8-Cineole	5.27	1036	12.83	[12.30]	1153	2.77*	Monoterp. ether
cis- $\beta$ -Ocimene	5.34	1040	0.05	2.45	1191	3.25*	Monoterpene
trans- $\beta$ -Ocimene	5.52	1050	0.01	0.03	1204	3.41	Monoterpene
$\gamma$ -Terpinene	5.72	1060	2.44	[2.45]	1191	3.25*	Monoterpene
cis-Linalool oxide (fur.)	5.98	1075	0.15	0.15	1378	5.95	Monoterp. alcohol
cis-Sabinene hydrate	6.03	1077	0.02	0.18	1405	6.38*	Monoterp. alcohol
Terpinolene	6.18	1086	0.63	0.62	1226	3.70*	Monoterpene
trans-Linalool oxide (fur.)	6.29	1092	0.17	[0.18]	1405	6.38*	Monoterp. alcohol
para-Cymenene	6.38	1097	0.02	0.01	1371	5.83	Monoterpene
$\alpha$ -Pinene oxide	6.50	1102	0.10	0.10	1301	4.79	Monoterp. ether
Linalool	6.80	1113	33.08	33.49	1502	8.42*	Monoterp. alcohol
endo-Fenchol	7.12	1125	0.01	0.01	1518	8.79	Monoterp. alcohol
cis-para-Menth-2-en-1-ol	7.17	1127	0.05	[33.49]	1502	8.42*	Monoterp. alcohol
trans-para-Menth-2-en-1-ol	7.77	1148	0.08	0.07	1559	10.05*	Monoterp. alcohol
Borneol	8.57	1178	0.02	0.14	1619	12.22*	Monoterp. alcohol
Terpinen-4-ol	8.80	1186	5.43	5.40	1539	9.27	Monoterp. alcohol
para-Cymen-8-ol	9.28	1202	0.05	0.03	1773	20.04	Monoterp. alcohol
$\alpha$ -Terpineol	9.38	1204	0.84	0.81	1629	12.57	Monoterp. alcohol
$\alpha$ -Gurjunene	19.57	1389	0.05	0.06	1467	7.59	Sesquiterpene
$\beta$ -Caryophyllene	20.46	1402	0.05	0.05	1526	8.97	Sesquiterpene
Aromadendrene	21.85	1419	0.17	0.21	1540	9.33	Sesquiterpene
allo-Aromadendrene	23.50	1439	0.07	[0.07]	1559	10.05*	Sesquiterpene
trans-Cadina-1(6),4-diene	24.92	1456	0.02	0.03	1586	11.02	Sesquiterpene
Virdiflorene	26.26	1472	0.14	[0.14]	1619	12.22*	Sesquiterpene
$\delta$ -Amorphene	27.45	1486	0.03	0.03	1653	13.61	Sesquiterpene
$\delta$ -Cadinene	29.16	1508	0.26	0.19	1679	14.94	Sesquiterpene

Essential oil, *Melaleuca ericifolia*  
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Report prepared for  
Flowers Shining Everywhere Inc.

Zonarene	29.50	1513	0.03	0.03	1674	14.66	Sesquiterpene
Spathulenol	33.71	1571	0.03	0.02	2032	35.93	Sesquiterp. alcohol
Globulol	34.12	1577	0.08	0.07	1987	33.98	Sesquiterp. alcohol
Viridiflorol	34.61	1584	0.05	0.06	1977	33.57	Sesquiterp. alcohol
<b>Total Identified</b>	<b>98.61%</b>		<b>98.62%</b>				

↳ Two or more compounds are coeluting on this column

(xx): Duplicate percentage due to coelutions, not taken account in the identified total

Note: no correction factor was applied

#### OTHER DATA

**Physical aspect** : Clear liquid

**Refractive Index** : 1.4655 ± 0.0003 (20 °C)

#### CONCLUSION

No adulterant, contaminant or diluent were detected using this method.



