



# GC/MS Report

GC3

Item	Lot <b>13630</b>
<b>98401-56</b>	
<i>Melaleuca cajuputi</i>	
Cajeput EO	
Date	Analyst
<b>9/4/2025</b>	<b>N. K</b>

## Sample Information

**Sample Name:** Cajeput  
**Botanical Name:** Melaleuca cajuputi  
**Lot Number:** 13559  
**Production Method:** Steam distilled

**Sample Type:** EO - Single  
**Country of Origin:** Australia  
**Analysis Date:** 9/4/2025  
**Manufacture Date:** September 2025

## 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	METHOD	RESULTS
Optical Rotation @20°C	USP[781]	+2.36
Refractive Index @20°C	USP[831]	1.46649
Specific Gravity @20°C	USP[841]	0.91464

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Components

Ret. Time	Component	Ret. Idx.	Conc. %	
4.338	Unidentified	650	0.02%	
6.391	Methyl 2-methylbutyrate	770	0.02%	
6.846	Isopropyl ketone	790	0.01%	
12.294	Tricyclene	921	0.01%	
12.439	alpha-Thujene	924	0.3%	
12.867	alpha-Pinene	931	3.49%	
13.696	alpha-Fenchene	946	0%	
13.800	Camphene	948	0.04%	
14.459	Benzaldehyde	959	0.03%	IFRA
15.085	Sabinene	970	0.08%	
15.405	beta-Pinene	976	1.25%	
16.022	Myrcene	987	0.69%	
16.972	Pseudolimonene	1003	0.04%	
17.122	alpha-Phellandrene	1005	0.17%	
17.265	delta-3-Carene	1008	0.03%	
17.780	alpha-Terpinene	1015	1.06%	
18.279	para-Cymene	1023	1.26%	
18.604	Limonene	1028	7.79%	IFRA
18.720	beta-Phellandrene	1030	0.27%	
18.869	1,8-Cineole	1032	62.93%	
18.940	cis-beta-Ocimene	1033	0.02%	
19.663	trans-beta-Ocimene	1044	0.02%	
20.480	gamma-Terpinene	1056	1.5%	
22.310	Terpinolene	1084	0.75%	
22.632	para-Cymenene	1088	0.02%	
23.262	Linalool	1098	0.17%	IFRA
23.990	cis-Rose oxide	1108	0.01%	
26.458	trans-Verbenol	1144	0.01%	
26.596	Camphor	1146	0.04%	
28.180	delta-Terpineol	1169	0.08%	
28.757	Unidentified	1177	0.03%	
28.902	Terpinen-4-ol	1179	0.39%	
29.325	para-Cymen-8-ol	1185	0.02%	
29.918	alpha-Terpineol	1194	4.57%	
32.044	Citronellol	1225	0.01%	IFRA
32.839	Neral	1236	0.03%	IFRA
34.862	Geranial	1266	0.04%	IFRA
35.317	cis-Ascaridol glycol	1272	0.01%	
36.503	trans-Ascaridol glycol	1290	0.01%	
37.947	delta-Terpinyl acetate	1311	0.01%	

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Ret. Time	Component	Ret. Idx.	Conc. %	
38.481	Unidentified	1319	0.01%	
39.412	delta-Elemene	1333	0.03%	
40.136	alpha-Terpinyl acetate	1344	0.65%	
40.429	Eugenol	1349	0.01%	IFRA
41.658	alpha-Ylangene	1367	0.14%	
42.084	alpha-Copaene	1374	0.1%	
42.961	beta-Elemene	1387	0.11%	
44.113	alpha-Gurjunene	1405	0.05%	
44.909	beta-Caryophyllene	1418	3.03%	
45.495	gamma-Elemene	1427	0.06%	
45.595	Unidentified	1429	0.01%	
45.868	alpha-Guaiene	1433	0.02%	
46.077	Aromadendrene	1436	0.08%	
46.268	Guaia-6,9-diene	1439	0.07%	
46.604	Unidentified	1445	0.06%	
46.753	Unidentified	1447	0.04%	
46.963	Valerna-4,7(11)-diene	1450	0.04%	
47.160	alpha-Humulene	1454	1.44%	
47.426	Alloaromodendrene	1458	0.23%	
48.058	Unidentified	1468	0.03%	
48.252	Selina-4,11-diene	1471	0.18%	
48.474	Unidentified	1475	0.25%	
48.619	alpha-Murolene	1477	0.26%	
48.941	Unidentified	1482	0.03%	
49.115	delta-Selinene	1485	0.25%	
49.241	beta-Selinene	1487	1.25%	
49.348	Viridiflorene	1489	0.16%	
49.441	Unidentified	1490	0.06%	
49.671	alpha-Selinene	1494	1.11%	
49.822	Unidentified	1496	0.06%	
50.084	delta-Amorphene	1500	0.15%	
50.125	Unidentified	1501	0.06%	
50.697	gamma-Cadinene	1511	0.07%	
50.996	delta-Cadinene	1516	0.15%	
51.090	Unidentified	1517	0.04%	
51.278	Zonarene	1520	0.03%	
51.854	Unidentified	1530	0.03%	
52.127	Selina-4(15),7(11)-diene	1535	0.09%	
52.393	Selina-3,7(11)-diene	1539	0.12%	
53.436	Germacrene B	1557	0.11%	

Ret. Time	Component	Ret. Idx.	Conc. %
53.611	Unidentified	1560	0.03%
54.108	Palustrol	1568	0.02%
54.798	Caryophyllene oxide	1580	0.16%
55.015	Globulol	1583	0.37%
55.523	Viridiflorol	1592	0.57%
55.639	Guaiol	1594	0.1%
55.800	Unidentified	1596	0.01%
56.119	Ledol	1602	0.09%
56.265	Unidentified	1604	0.01%
56.425	Humulene epoxide II	1607	0.06%
56.860	Intermedeol	1615	0.02%
57.220	Unidentified	1621	0.01%
57.338	Intermedeol	1623	0.06%
57.450	Unidentified	1625	0.02%
57.615	Unidentified	1628	0.02%
57.666	gamma-Eudesmol	1629	0.06%
57.795	Unidentified	1632	0.08%
57.954	Caryophylla-4(12),8(13)-dien-5-beta-ol	1634	0.01%
58.236	tau-Cadinol	1639	0.01%
58.984	alpha-Eudesmol	1653	0.29%
59.155	Unidentified	1656	0.07%
59.526	Bulnesol	1662	0.01%

Total Identified Compounds **99 %**

TIC  
33,937,667

