

Sample & Analysis Information

Sample Information

Sample Name: Patchouli Essential Oil**Botanical Name:** Pogostemon cablin**Lot Number:** 13134**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** Indonesia**Analysis Date:** 11/5/2024**Date of Distillation:** November 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

-50.88

1.50865

0.96445

Ret. Time	Component	Ret. Idx.	Conc. %	
3.025	Unidentified	551	0.01%	
12.082	alpha-Pinene	932	0.1%	
14.516	beta-Pinene	976	0.23%	
17.614	Limonene	1028	0.03%	IFRA
17.805	1,8-Cineole	1031	0.01%	
38.170	delta-Elemene	1334	0.13%	
38.652	Glycerine diacetate	1341	0.03%	
39.216	Eugenol	1350	0.01%	IFRA
40.811	alpha-Copaene	1374	0.02%	
41.220	beta-Elemene	1380	0.02%	
41.368	beta-Patchoulene	1383	2.3%	
41.710	beta-Elemene	1388	1.33%	
42.659	cis-beta-Caryophyllene	1402	0.01%	
43.316	Cycloseychellene	1413	0.63%	
43.607	beta-Caryophyllene	1418	3.17%	
44.246	gamma-Elemene	1428	0.01%	
44.654	alpha-Guaiene	1434	14.29%	
45.043	Unidentified	1441	0.03%	
45.158	Guaiene analogue	1443	0.04%	
45.456	Seychellene	1447	6.69%	
45.604	Selina-5,11-diene	1450	0.06%	
45.729	Unidentified	1452	0.02%	
45.860	alpha-Humulene	1454	0.55%	
46.071	Unidentified	1457	0.13%	
46.216	alpha-Patchoulene	1460	4.74%	
46.389	9-epi-Caryophyllene isomer	1462	1.71%	
46.618	9-epi-trans-Caryophyllene	1466	1.32%	
46.748	Unidentified	1468	0.02%	
46.951	Selina-4,11-diene	1471	0.04%	
47.109	beta-Chamigrene	1474	0.42%	
47.325	gamma-Gurjunene	1477	0.11%	
47.430	Germacrene D	1479	0.06%	
47.812	dellta-Selinene	1485	0.15%	
47.935	beta-Selinene	1487	0.34%	
48.132	Valencene	1490	0.03%	
48.365	Aciphyllene	1494	2.77%	
48.551	alpha-Bulnesene analogue	1497	0.78%	
48.779	alpha-Bulnesene	1501	17.47%	
49.085	Unidentified	1506	0.02%	
49.236	Nootkatene	1508	0.11%	

Ret. Time	Component	Ret. Idx.	Conc. %	
49.520	Unidentified	1513	0.01%	
49.755	(-)-alpha-Panasinsen	1517	0.23%	
50.299	beta-Vetivenene	1526	0.04%	
50.416	Nootkatene analogue	1528	0.09%	
50.771	Unidentified	1534	0.01%	
51.471	alpha-Elemol	1546	0.03%	
52.090	Germacrene B	1557	0.02%	
52.195	Unidentified	1558	0.01%	
52.466	Unidentified	1563	0.01%	
52.648	Unidentified	1566	0.04%	
52.757	Norpatchoulenol	1568	0.51%	
52.891	Unidentified	1570	0.24%	
53.144	Unidentified	1574	0.01%	
53.295	Unidentified	1577	0.02%	
53.448	Caryophyllene oxide	1580	0.33%	
53.636	Spathulenol	1583	0.37%	
53.815	Unidentified	1586	0.04%	
54.020	Unidentified	1589	0.01%	
54.331	Unidentified	1594	0.05%	
54.732	Unidentified	1601	0.08%	
54.965	Unidentified	1605	0.02%	
55.061	Humulene epoxide II	1607	0.05%	
55.386	Unidentified	1613	0.18%	
55.462	Unidentified	1614	0.2%	
55.586	Unidentified	1617	0.05%	
55.830	Unidentified	1621	0.22%	
56.055	Unidentified	1625	0.66%	
56.185	Unidentified	1627	0.03%	
56.351	Unidentified	1630	0.06%	
56.686	Pogostol analogue	1636	0.27%	
56.939	Unidentified	1641	0.04%	
57.084	Juniper camphor	1643	0.12%	
57.236	Unidentified isomer I	1646	0.08%	
57.426	Unidentified isomer I	1649	0.08%	
57.690	Unidentified	1654	0.02%	
57.807	Pogostol	1656	2.28%	
57.985	Unidentified	1659	0.03%	
58.173	Unidentified	1663	0.21%	
58.287	Unidentified	1665	0.09%	
58.612	Patchouli alcohol	1670	31.13%	

Ret. Time	Component	Ret. Idx.	Conc. %	
58.696	Unidentified	1672	0.26%	
58.869	Unidentified	1675	0.17%	
59.082	Unidentified	1679	0.06%	
59.307	Unidentified	1683	0.03%	
59.690	Unidentified	1690	0.01%	
59.783	Unidentified	1691	0.02%	
60.185	Unidentified	1698	0.02%	
60.256	Unidentified	1700	0.16%	
60.561	Unidentified	1705	0.03%	
60.873	Pogostone	1711	0.62%	
60.980	Unidentified	1713	0.04%	
61.172	Altantone isomer	1717	0.12%	
61.250	Unidentified	1718	0.05%	
61.460	Unidentified	1722	0.02%	
61.880	Unidentified	1730	0.05%	
62.090	Longifolol	1734	0.17%	
62.750	Unidentified	1746	0.01%	
62.916	Altantone isomer	1749	0.03%	
63.154	Unidentified	1754	0.02%	
63.700	Unidentified	1764	0.01%	
63.863	Unidentified	1767	0.05%	
64.336	Unidentified	1776	0.07%	
64.786	Unidentified	1784	0.02%	
65.228	Unidentified	1793	0.01%	
65.777	Unidentified	1803	0.02%	
66.141	Unidentified	1810	0.02%	
67.645	Phytone	1840	0.01%	
69.935	Unidentified	1885	0.02%	
97.881	Diisooctyl phthalate	2525	0.01%	

Total Identified Compounds **96.14 %**

