

Sample & Analysis Information

Sample Information

Sample Name: *EUGCAR2**Botanical Name:** Eugenia caryophyllata**Lot Number:** N0H1030C**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** Indonesia**Analysis Date:** 11/1/2024**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

-.36

1.53624

1.06135

Ret. Time	Component	Ret. Idx.	Conc. %	
7.785	Furfural	827	0.01%	IFRA
28.686	Methyl salicylate	1189	0.07%	
32.720	Chavicol	1248	0.08%	
39.727	Eugenol	1352	79.29%	IFRA
41.059	alpha-Copaene	1373	0.13%	
42.600	Methyleugenol	1396	0.02%	IFRA
43.854	beta-Caryophyllene	1416	6.36%	
44.361	Unidentified	1424	0.01%	
45.707	Unidentified	1446	0.01%	
46.081	alpha-Humulene	1452	0.92%	
47.112	Cadina-1(6),4-diene	1468	0.02%	
48.593	Unidentified	1492	0.01%	
48.768	Unidentified	1495	0.02%	
49.126	Unidentified	1501	0.01%	
49.762	Eugenyl acetate	1511	12.67%	
49.944	delta-Cadinene	1514	0.13%	
50.124	cis-Calamenene	1517	0.03%	
50.792	Unidentified	1529	0.01%	
51.818	Unidentified	1546	0.02%	
52.092	Unidentified	1551	0.01%	
53.305	Unidentified	1571	0.01%	
53.695	Caryophyllene oxide	1578	0.1%	
54.312	Unidentified	1588	0.01%	
56.850	Caryophylla-4(12),8(13)-dien-5-alpha-ol	1633	0.01%	
57.913	Unidentified	1651	0.03%	
58.731	Unidentified	1666	0.01%	

Total Identified Compounds **99.84 %**

