

Sample Information

Sample Name: Cedarwood EO, Atlas

Botanical Name: Cedrus atlantica

Lot Number: MOP27-PK

Production Method: Steam distilled

Sample Type: EO - Single

Country of Origin: Morocco

Analysis Date: 10/11/2024

Manufacture Date: October 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

+79.80

1.51241

0.93344

Ret. Time	Component	Ret. Idx.	Conc. %	
6.559	Isobutenyl methyl ketone	798	0.02%	
12.071	alpha-Pinene	931	0.03%	
17.602	Limonene	1028	0.01%	IFRA
21.574	para-Cymenene	1089	0.01%	
23.509	endo-Fenchol	1118	0.01%	
24.295	4-Acetyl-1-methylcyclohexene	1129	0.59%	
25.777	Unidentified isomer I	1151	0.04%	
25.956	Unidentified isomer I	1153	0.04%	
27.118	endo-Borneol	1170	0.01%	
28.003	4'-Methyl acetophenone	1183	0.07%	
28.726	alpha-Terpineol	1194	0.04%	
31.580	Unidentified	1236	0.01%	
39.110	alpha-Longipinene	1348	0.09%	
40.374	alpha-Ylangene	1368	0.05%	
40.519	Unidentified	1370	0.02%	
40.803	alpha-Copaene	1374	0.04%	
41.372	Unidentified	1383	0.71%	
41.807	Unidentified	1389	0.09%	
42.020	Unidentified	1393	0.03%	
42.060	Unidentified	1393	0.01%	
42.385	Unidentified	1398	0.01%	
42.547	Sibirene	1401	0.63%	
42.741	cis-Vestitenone	1404	0.09%	
42.941	Longifolene	1407	0.59%	IFRA
43.366	alpha-Cedrene	1414	0.01%	IFRA
43.576	Unidentified	1417	0.03%	
43.815	Unidentified	1421	0.01%	
43.910	Himachala-2,4-diene	1423	0.49%	
44.050	Unidentified	1425	0.12%	
44.223	Unidentified	1428	0.02%	
44.280	Unidentified	1428	0.01%	
44.470	Unidentified	1432	0.05%	
44.579	Unidentified	1433	0.06%	
45.012	Unidentified	1440	0.62%	
45.297	Unidentified	1445	0.02%	
45.557	alpha-Himachalene	1449	16.82%	
45.708	trans-beta-Farnesene	1451	0.19%	
46.063	Unidentified	1457	0.32%	
46.406	Unidentified	1463	0.38%	
46.602	11-aH-Himachala-1,4-diene isomer	1466	0.13%	

Ret. Time	Component	Ret. Idx.	Conc. %	
46.831	alpha-Neocallitropsene	1469	0.47%	
47.089	Bicyclogermacrene	1474	0.04%	
47.319	gamma-Himachalene	1477	10.31%	
47.580	11-aH-Himachala-1,4-diene	1481	2.01%	
47.755	10s,11s-Himachala-3(12),4-diene	1484	0.03%	
47.866	cis-4,10-Epoxy amorphane	1486	0.22%	
48.139	alpha-Bulnesene	1490	0.1%	
48.245	Unidentified	1492	0.04%	
48.297	Unidentified	1493	0.19%	
48.737	beta-Himachalene	1500	45.41%	
48.966	(E)-Eremophila-1(10),7(11)-dien-12-yl acetate	1504	0.02%	
49.205	alpha-Dehydro-ar-himachalene	1508	1.38%	
49.454	Unidentified	1512	0.02%	
49.703	delta-Cadinene	1516	1.93%	
49.804	cis-Calamenene	1518	0.1%	
49.888	trans-Calamenene	1519	0.08%	
50.130	gamma-Dehydro-ar-himachalene	1523	2.16%	
50.280	Unidentified	1526	0.02%	
50.565	Unidentified	1531	0.11%	
50.614	gamma-Vetivenene	1532	0.37%	
50.760	Unidentified	1534	0.03%	
51.037	alpha-Calacorene	1539	1.11%	
51.396	Unidentified	1545	0.05%	
51.971	Unidentified	1555	0.06%	
52.249	Unidentified	1559	0.1%	
52.383	Unidentified	1562	0.05%	
52.854	Himachalene epoxide	1570	0.34%	
53.149	Unidentified	1575	0.11%	
53.328	Unidentified	1578	0.08%	
53.598	Unidentified	1582	0.01%	
53.746	Unidentified	1585	0.01%	
53.863	Unidentified	1587	0.01%	
53.996	Unidentified	1589	0.05%	
54.343	Unidentified	1595	0.02%	
54.619	Longiborneol	1599	0.3%	
54.902	Unidentified isomer I	1604	0.03%	
55.020	Unidentified isomer I	1606	0.02%	
55.230	beta-Himachalene oxide	1610	0.59%	
55.470	Unidentified	1614	0.02%	
55.603	beta-Himachalene oxide isomer	1617	0.45%	

Ret. Time	Component	Ret. Idx.	Conc. %	
55.810	Unidentified	1621	0.03%	
56.020	Muurola-4,10(14)-dien-1-beta-ol	1624	0.1%	
56.087	Epicubenol	1625	0.45%	
56.140	Unidentified	1626	0.15%	
56.299	Unidentified	1629	0.09%	
56.447	Unidentified	1632	0.05%	
56.655	Unidentified	1636	0.12%	
57.001	beta-Himachalol	1642	0.08%	
57.209	Unidentified	1645	0.05%	
57.562	Himachalol analogue	1652	0.56%	
57.938	Unidentified	1658	0.03%	
58.130	Unidentified	1662	0.06%	
58.265	Allohimachalol	1664	0.83%	
58.404	Unidentified	1667	0.18%	
58.594	Cadalene	1670	0.07%	
58.876	Unidentified	1675	0.03%	
59.374	cis-gamma-Atlantone	1684	0.65%	
59.680	Unidentified	1689	0.01%	
59.871	Deodarone isomer	1693	0.87%	
59.955	Deodarone isomer	1694	0.89%	
60.032	trans-gamma-Atlantone	1696	0.67%	
60.181	10-Nor-calamenen-10-one	1698	0.04%	
60.392	Unidentified	1702	0.01%	
60.866	cis-alpha-Atlantone	1711	0.45%	
61.390	Unidentified	1721	0.01%	
61.509	Unidentified	1723	0.02%	
62.036	Unidentified	1733	0.05%	
62.374	Unidentified	1739	0.03%	
62.554	Unidentified	1743	0.02%	
63.380	Unidentified	1758	0.05%	
64.075	trans-alpha-Atlantone	1771	2.28%	
64.280	Unidentified	1775	0.02%	
64.533	Unidentified	1780	0.01%	
65.145	Unidentified	1791	0.07%	

Total Identified Compounds **95.28 %**

