

# SAFETY DATA SHEET (SDS)

Version 2.0

Revision Date : April 21,2022

Print Date : March 17, 2023

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Cedarwood Essential Oil (Atlas)
Botanical name	:	Cedrus atlantica
INCI name	:	Cedrus Atlantica Bark Oil
CAS #	:	92201-55-3
Country of Origin	:	Morocco
EINECS #	:	295-985-9
Product user	:	Domestic and Industrial

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

### GHS Classification

Aspiration toxicity - Category 1

Hazardous to the aquatic environment - long term hazard - Category 2

Sensitization skin - Category 1B

### GHS Label elements, including precautionary statements



Signal: Danger

### Hazard statement(s)

H304	May be fatal if swallowed and enters airways.
H411	Toxic to aquatic life with long-lasting effects.
H317	May cause an allergic skin reaction

### Precautionary statement(s)

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P273	Avoid release to the environment.

P301	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician. Specific treatment.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents and/or container in accordance with local, regional, national and/or international regulation for hazardous wastes.

### 3. COMPOSITION / INFORMATION INGREDIENTS

Product Name	CAS NO	EC NO	Concentration
β-himalachene	1461-03-6	-	37 - 46 %
α-himachalene	3853-83-6	-	14.9 - 17.1 %
γ-himalachene	53111-25-4	-	9 - 11 %
Delta Cadinene	483-76-1	-	1.7 - 2.7 %

### 4. FIRST AID MEASURES

#### Eye contact

Immediately flush eyes with plenty of cool water for at least 15 minutes. Get medical attention if irritation occurs.

#### Skin contact

Remove contaminated clothing. Wash area with soap and water. If irritation occurs, get medical attention.

#### Inhalation

If inhaled, removed to fresh air. Get medical attention if symptoms appear.

#### Ingestion

Seek medical attention or contact local poison control center.

### 5. FIRE FIGHTING MEASURES

#### Suitable extinguishing media

Foam. Dry Powder. Carbon dioxide.

#### Unsuitable extinguishing media

Water spray, water jet.

#### Special protective equipment and precautions for fire-fighters

Wear proper protective equipment. Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers.

#### Special hazards arising from the substance or its combustible products

Hazardous decomposition products may be formed at extreme heat or if burned.

#### Resulting gases

Carbon oxides.

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures.

Equip clean crew with proper protection. Respiratory protection equipment may be necessary.

#### Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

#### Methods and materials for containment and cleaning up

Clean up any spills as soon as possible, using an absorbent material to collect it. Use suitable disposal containers.

## 7. HANDLING AND STORAGE

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### Precautions for safe handling

No direct lighting. No smoking. Ensure prompt removal from eyes, skin and clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle in accordance with good industrial hygiene and safety procedures.

### Conditions for safe storage, including any incompatibilities

Provide local exhaust or general room ventilation to minimize dust and/or vapour concentrations. Keep container closed when not in use.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

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### Exposure controls

Odor is inadequate to warn of overexposure.

### Eyes

Use tightly sealed goggles.

### Skin

If skin contact or contamination of clothing is likely, protective clothing should be worn. Use protective gloves.

### Respiratory

In case of insufficient ventilation, wear suitable respiratory equipment.

### Ingestion

Not for ingestion.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance	:	Yellow to Brown mobile liquid.
Odor	:	Characteristic sweet , woody, balsamic aromatic odor.
Flash point	:	>100°C
Relative density	:	0.910 to 0.940 @ 20°C
Solubility (ies)	:	Soluble in alcohol and oils. Insoluble in water.
Refractive index	:	1.500 to 1.520 @ 20°C
Optical rotation	:	+62° to +91°

## 10. STABILITY AND REACTIVITY

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### Reactivity

This material presents no significant reactivity hazard.

### Chemical stability

Chemically stable.

### Possibility of hazardous reactions

Hazardous polymerization will not occur.

### Conditions to avoid

Avoid sparks, flame and other heat sources.

### Incompatible materials

Strong oxidizing agents.

### Hazardous decomposition products

Carbon Oxides.

## 11. TOXICOLOGICAL INFORMATION

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### **Acute toxicity**

Not available.

### **Carcinogenicity**

None of the components of this material are listed as a carcinogen.

### **IARC**

Not carcinogenic according to IARC.

### **NTP**

Not carcinogenic according to NTP.

### **OSHA**

Not carcinogenic according to OSHA.

### **Chronic toxicity**

May cause allergic reactions on skin.

### **Reproductive toxicity**

No adverse effects on reproduction are known.

### **Inhalation**

Inhalation of high concentrations of vapor may result in irritation of eyes, nose and throat, headache, nausea, and dizziness.

### **Skin contact**

Adverse skin effects should be prevented by normal care and personal hygiene.

### **Eye contact**

Possible irritation should be prevented by wearing safety glasses.

### **Ingestion**

Low order toxicity causing irritation of the stomach and intestines which results in nausea and vomiting

### **Repeated exposure**

Repeated or prolonged contact may cause redness, irritation and scaling of skin (Dermatitis).

## 12. ECOLOGICAL INFORMATION

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### **Ecotoxicity**

Toxic to aquatic organisms, may cause long-term adverse effects environment. Avoid any pollution of ground, surface or underground water.

### **Bio - accumulative potential**

Not available.

## 13. DISPOSAL CONSIDERATION

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Dispose of product in accordance with local, state or provincial and federal regulations. Check with local municipal authority to ensure compliance.

## 14. TRANSPORT INFORMATION

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### **UN Number**

3082

### **UN proper shipping name**

Environmentally hazardous substance, liquid, n.o.s. (Cedarwood Oil)

### **Transport hazard class**

9

**Packing group**

III

**US DOT Shipping Description (Land)**

3082

**Proper shipping name**

Environmentally hazardous substance, liquid, n.o.s. (Cedarwood Oil)

**Class**

9

**Packaging group**

III

**IMO-IMDG Shipping Description (Sea)**

3082

**Proper shipping name**

Environmentally hazardous substance, liquid, n.o.s. (Cedarwood Oil)

**Class**

9

**IATA Shipping Description (Air)**

3082

**Proper shipping name**

Environmentally hazardous substance, liquid, n.o.s. (Cedarwood Oil)

**Class**

9

**Packaging group**

III

**Emergency action in case of accident**

Notify police and fire department immediately

**15. REGULATORY INFORMATION**

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**California Proposition 65**

• This product can expose you to Beta Myrcene, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**GHS Hazard Statements**

Please refer to section 2.

**GHS Precautionary Statements**

Please refer to section 2.

**16. OTHER INFORMATION**

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Revision date : April 21,2022

Limitación de Responsabilidad

Consulta toda la información técnica relevante específica del producto antes de su uso. La información contenida en este documento se obtiene de fuentes actuales y confiables. MyLottush, proporciona la información contenida en este documento, pero no garantiza su exhaustividad o precisión. Las personas que reciben esta información deben ejercer su juicio independiente para determinar si es adecuada para un propósito particular. El usuario del producto



**CERTIFICATE OF ANALYSIS****Product** : Cedarwood Essential Oil (Atlas)

Lot No : 11194A10722

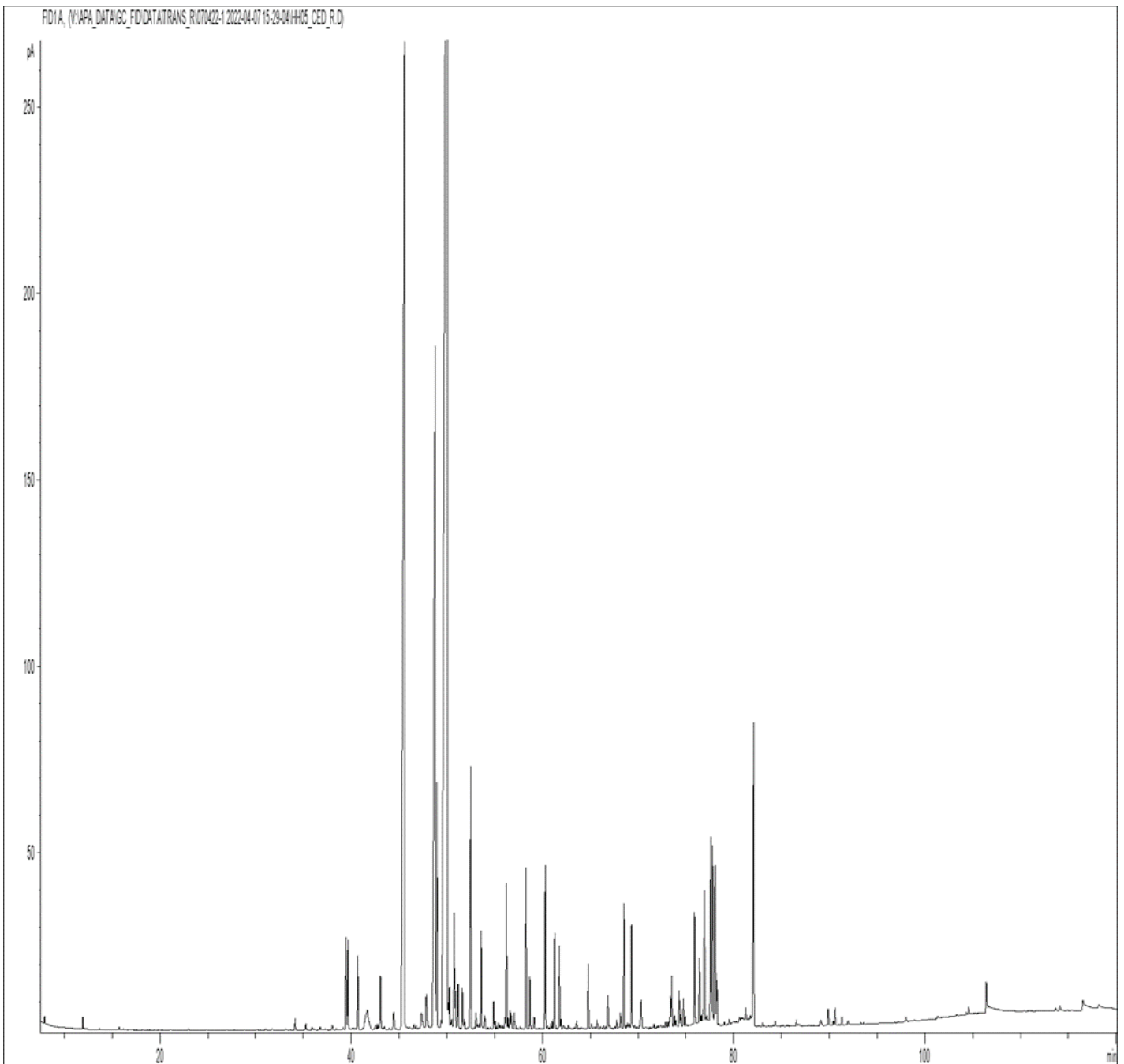
Best Before : May, 2025

<b><u>Properties</u></b>	<b><u>Specifications</u></b>	<b><u>Results</u></b>
Appearance	: yellow to orange or brown mobile liquid.	Complies
Odor	: Characteristic sweet aromatic odor.	Complies
Solubility	: Soluble in alcohol, insoluble in water.	Complies
Specific Gravity	: 0.910 to 0.940 @ 20°C	0.934
Optical Rotation	: +62° to +91° @ 20°C	+78.8°
Refractive Index	: 1.50 to 1.520 @ 20°C	1.512
β-himalachene	: 29 - 52 %	39.27
γ-himalachene	: 7 - 20 %	8.87
α-himachalene	: 14.9-17.1%	14.73

## GCMS ANALYSIS

**PRODUCT NAME: CEDARWOOD ESSENTIAL OIL (ATLAS) - 11194**

**DATE: April 22, 2022**



*Due to volume turnover, this report is not lot specific, It is representative of the quality of this oil produced by the manufacturer of this product, Specific lots may vary slightly as is the case in natural products,*



### GCMS ANALYSIS (cont'd.)

PRODUCT NAME: CEDARWOOD ESSENTIAL OIL (ATLAS) - 11194

Peak	RT (min)	Compound name	%
1	7,93	alpha-PINENE	0,03
2	11,96	3-PENTEN-2-ONE, 4-METHYL-	0,07
3	15,74	LIMONENE	0,01
4	34,13	alpha-LONGIPINENE	0,07
5	35,25	YLANGENE	0,04
6	35,88	alpha-COPAENE	0,02
7	36,75	alpha-GURJUNENE	0,02
8	38,01	SATIVENE	0,03
9	38,43	AROMATIC COMPOUND	0,01
10	39,14	SESQUITERPENE	0,02
11	39,44	4-ACETYLCYCLOHEX-1-ENE, 1-METHYL-	0,56
12	39,64	CADINADIENE ISOMER	0,60
13	40,67	LONGIFOLENE	0,50
14	41,66	EUDESMATRIENE ISOMER	0,60
15	41,96	SESQUITERPENE Mw=202	0,03
16	42,55	SESQUITERPENE	0,04
17	42,75	SESQUITERPENE	0,04
18	42,90	SESQUITERPENE	0,02
19	43,05	CEDRENE ISOMER	0,40
20	43,44	SESQUITERPENE	0,03
21	44,43	HIMACHALENE ISOMER	0,18
22	45,57	<b>alpha-HIMACHALENE</b>	<b>15,45</b>
23	46,11	SESQUITERPENE Mw=202	0,03
24	46,57	CADINENE ISOMER	0,04
25	46,79	SESQUITERPENE	0,03
26	47,33	E-beta-FARNESENE	0,27
27	47,85	HIMACHALENE ISOMER	0,34
28	47,96	CURCUMENE ISOMER	0,07
29	48,78	<b>gamma-HIMACHALENE</b>	<b>9,18</b>
30	48,95	<b>11-alpha-HIMACHALA-1,4-DIENE</b>	<b>1,70</b>

### GCMS ANALYSIS (cont'd.)

PRODUCT NAME: CEDARWOOD ESSENTIAL OIL (ATLAS) - 11194

Peak	RT (min)	Compound name	%
31	49,39	SESQUITERPENE	0,06
32	50,06	<b>beta-HIMACHALENE</b>	<b>41,35</b>
33	50,14	HIMACHALENE ISOMER	0,16
34	50,27	SESQUITERPENE Mw=202	0,28
35	50,40	HIMACHALENE ISOMER	0,04
36	50,50	SESQUITERPENE	0,09
37	50,76	ISOTHUYOPSENE	0,75
38	50,87	COMPOUND Mw=222	0,27
39	51,16	SESQUITERPENE Mw=202	0,35
40	51,61	SESQUITERPENE Mw=202	0,26
41	51,82	SESQUITERPENE Mw=202	0,07
42	52,50	<b>delta-CADINENE</b>	<b>1,86</b>
43	52,87	SESQUITERPENE	0,02
44	53,02	SESQUITERPENE Mw=202	0,15
45	53,21	SESQUITERPENE Mw=202	0,04
46	53,30	SESQUITERPENE Mw=202	0,02
47	53,42	p-METHYLACETOPHENONE	0,04
48	53,58	trans-alpha-BISABOLENE	0,60
49	53,94	CADINA-1,4-DIENE	0,10
50	54,26	CALAMENENE ISOMER	0,02
51	54,54	CALAMENENE ISOMER	0,02
52	54,89	SESQUITERPENE Mw=202	0,18
53	55,03	GERMACRENE B	0,06
54	55,22	KETONIC COMPOUND	0,03
55	55,40	SESQUITERPENE Mw=202	0,05
56	55,59	AROMATIC COMPOUND	0,03
57	55,79	TETRAMETHYL DIHYDRO NAPHTALENE Mw=186	0,03
58	56,07	SESQUITERPENE Mw=202	0,07
59	56,23	EUDESMA-2,4,11-TRIENE ISOMER	0,97
60	56,41	cis-CALAMENENE	0,08

### GCMS ANALYSIS (cont'd.)

PRODUCT NAME: CEDARWOOD ESSENTIAL OIL (ATLAS) - 11194

Peak	RT (min)	Compound name	%
61	56,61	trans-CALAMENENE	0,12
62	56,73	AROMATIC COMPOUND	0,09
63	57,05	AROMATIC COMPOUND	0,10
64	57,10	SESQUITERPENE Mw=202	0,03
65	57,66	COMPOUND Mw=200	0,02
66	58,26	OCTAHYDRO METHYLPHENANTHRENE ISOMER Mw=200	1,02
67	58,67	CADINA-1,6,8-TRIENE	0,33
68	59,07	SESQUITERPENE Mw=202	0,03
69	59,12	TERPENIC COMPOUND	0,08
70	60,29	OCTAHYDRO METHYLPHENANTHRENE ISOMER Mw=200	1,04
71	60,53	AROMATIC COMPOUND	0,03
72	60,85	SESQUITERPENONE	0,03
73	61,02	AROMATIC COMPOUND	0,05
74	61,27	alpha-CALACORENE	0,61
75	61,65	SESQUITERPENONE	0,01
76	61,76	VESTITENONE	0,51
77	61,94	TERPENIC COMPOUND	0,07
78	62,72	AROMATIC COMPOUND Mw=208	0,02
79	63,57	beta-CALACORENE	0,05
80	64,79	AROMATIC KETONE Mw=218	0,43
81	65,11	CALAMENENE ISOMER	0,05
82	65,37	SESQUITERPENONE	0,01
83	65,51	SESQUITERPENIC EPOXIDE	0,02
84	65,71	SESQUITERPENIC EPOXIDE	0,06
85	66,08	AROMATIC COMPOUND	0,02
86	66,40	ALIPHATIC ESTER	0,02
87	66,64	AROMATIC ESTER	0,02
88	66,84	OXYGENED COMPOUND Mw=220	0,23
89	66,96	OXYGENED COMPOUND Mw=220	0,02
90	67,54	AROMATIC COMPOUND	0,02

### GCMS ANALYSIS (cont'd.)

PRODUCT NAME: CEDARWOOD ESSENTIAL OIL (ATLAS) – 11194

Peak	RT (min)	Compound name	%
91	67,76	COMPOUND Mw=218	0,06
92	68,14	SESQUITERPENIC EPOXIDE	0,11
93	68,53	METHOXYBENZYL ALCOHOL	0,83
94	68,76	AROMATIC COMPOUND Mw=200	0,03
95	68,90	NEROLIDOL	0,05
96	69,05	SESQUITERPENOL	0,05
97	69,32	CUBENOL	0,69
98	69,48	COMPOUND Mw=234	0,02
99	69,64	p-CRESOL	0,02
100	70,15	SESQUITERPENOL	0,02
101	70,28	OXYGENED COMPOUND Mw=220	0,11
102	70,32	OXYGENED COMPOUND Mw=220	0,18
103	71,22	AROMATIC COMPOUND	0,01
104	71,65	SESQUITERPENOL	0,03
105	71,95	SESQUITERPENOL	0,02
106	72,13	AROMATIC COMPOUND	0,03
107	72,32	beta-COPAEN-4-alpha-OL	0,01
108	72,38	AROMATIC COMPOUND	0,03
109	72,64	AROMATIC COMPOUND	0,02
110	72,88	ALIPHATIC ESTER	0,05
111	73,12	TERPENIC COMPOUND	0,04
112	73,31	EUDESMOL ISOMER	0,04
113	73,38	SESQUITERPENIC EPOXIDE	0,21
114	73,51	LONGIBORNEOL	0,37
115	73,79	HIMACHALOL ISOMER	0,12
116	73,95	SESQUITERPENIC EPOXIDE	0,09
117	74,29	OXYGENED COMPOUND Mw=220	0,25
118	74,44	SESQUITERPENE	0,12
119	74,73	AROMATIC COMPOUND	0,22
120	74,93	AROMATIC COMPOUND	0,09

### GCMS ANALYSIS (cont'd.)

PRODUCT NAME: CEDARWOOD ESSENTIAL OIL (ATLAS) – 11194

Peak	RT (min)	Compound name	%
121	75,91	TURMERONE ISOMER	0,77
122	76,41	<b>HIMACHALOL</b>	<b>0,41</b>
123	76,59	AROMATIC COMPOUND Mw=190	0,04
124	76,83	CADALENE ISOMER	0,10
125	76,94	ATLANTONE ISOMER	0,84
126	77,15	alpha-BISABOLOL	0,03
127	77,60	<b>Z-alpha-ATLANTONE</b>	<b>1,29</b>
128	77,79	<b>beta-ATLANTONE</b>	<b>1,19</b>
129	78,06	<b>ALLO-HIMACHALOL</b>	<b>0,99</b>
130	78,18	ATLANTONE ISOMER	1,74
131	78,41	AROMATIC COMPOUND	0,02
132	78,77	SESQUITERPENOL	0,01
133	79,03	COMPOUND Mw=238	0,03
134	79,53	SESQUITERPENOL	0,04
135	80,58	SESQUITERPENOL	0,04
136	80,77	SESQUITERPENONE	0,03
137	81,25	SESQUITERPENOL	0,09
138	81,52	SESQUITERPENONE	0,01
139	81,75	AROMATIC COMPOUND	0,03
140	82,08	<b>E-alpha-ATLANTONE</b>	<b>3,86</b>
141	82,53	SESQUITERPENONE	0,01
142	83,00	SESQUITERPENONE	0,02
143	83,14	OXYGENED COMPOUND Mw=220	0,01
144	84,07	AROMATIC COMPOUND	0,02
145	84,33	AROMATIC COMPOUND	0,04
146	84,98	AROMATIC COMPOUND	0,01
147	85,17	COMPOUND Mw=200	0,01
148	85,68	SESQUITERPENOL	0,01
149	86,57	AROMATIC COMPOUND	0,05
150	86,85	OXYGENED COMPOUND Mw=220	0,03

## GCMS ANALYSIS (cont'd.)

PRODUCT NAME: CEDARWOOD ESSENTIAL OIL (ATLAS) – 11194

Peak	RT (min)	Compound name	%
151	89,05	KETONIC COMPOUND	0,03
152	89,11	AROMATIC COMPOUND	0,03
153	89,22	AROMATIC COMPOUND	0,02
154	89,88	SESQUITERPENIC EPOXIDE	0,14
155	90,41	OXYGENED COMPOUND Mw=220	0,03
156	90,58	AROMATIC COMPOUND	0,12
157	91,32	OXYGENED COMPOUND Mw=220	0,07
158	91,96	SESQUITERPENOL	0,03
159	93,27	SESQUITERPENIC EPOXIDE	0,02
160	93,61	AROMATIC COMPOUND	0,02
161	98,00	AROMATIC COMPOUND	0,05
162	101,34	AROMATIC COMPOUND	0,03
163	103,36	SESQUITERPENOL	0,02
164	104,57	AROMATIC COMPOUND	0,06
165	113,66	ALIPHATIC ESTER	0,02
166	114,13	AROMATIC ESTER	0,04
		<b>TOTAL</b>	<b>99,93</b>

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