



NHR ORGANIC OILS  
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## *Certificate of Analysis & Gas Chromatography* **Organic Cade Wood Essential Oil** *(Juniperus oxycedrus)*

Botanical name : *Juniperus oxycedrus L.*  
Commercial name : Organic Cade  
Batch number : 300125-9  
Geographical origin : France

### **Physical and chemical data :**

	<b>Standards</b>	<b>Results of analysis</b>
<b>Appearance</b>	Clear liquid	Conform
<b>Colour</b>	Colourless to pale yellow	Conform
<b>Odour</b>	Characteristic, woody, spicy	Conform
<b>Specific gravity at 20°C</b>	0.915 to 0.965	0.9406
<b>Refractive index at 20°C</b>	1.500 to 1.515	1.5077
<b>Flash point</b>	+75°C to +85°C	

### **Table of components (1) :**

<b>Components</b>	<b>Contents</b>
Alpha-pinene	0.69%
Camphene	0.02%
Thuja-2,4(10)-diene	0.02%
Beta-pinene	0.03%
Myrcene	0.04%
Delta-3-carene	0.03%
Limonene	0.02%
Trans-pinocarveol	0.02%
Camphor	0.02%
Alpha-terpineol	0.03%
Carvacrol methyl ether	0.03%
Thymoquinone	0.04%
Carvenone	0.02%
Bornyl Acetate	0.01%
Alpha-terpinyl Acetate	0.02%
Alpha-cubebene	0.34%
Sesquiterpenic Hydrocarbure MW = 204	0.02%
Beta-cubebene	0.09%
Beta-elemene	0.98%
Sesquiterpenic Hydrocarbure MW = 204	0.25%

Sibirene	0.29%
Longifolene	0.09%
Alpha-cedrene	0.49%
Beta-caryophyllene	5.41%
Beta-copaene	0.03%
Alpha-guaiene	0.30%
Cis-thujopsene	0.17%
Trans-muurolo-3,5-diene	0.28%
Alpha-humulene	4.00%
Trans-cadina-1(6),4-diene	4.84%
Gamma-muurolene	0.49%
Cis-4,10-epoxy-amorphane	0.07%
Sesquiterpenic Hydrocarbure MW = 204	0.10%
Beta-selinene	0.81%
Trans-muurolo-4(14),5-diene	1.29%
Sesquiterpenic Hydrocarbure MW = 204	0.21%
Alpha-muurolene	2.72%
Beta-himachalene	0.05%
Cuparene	0.05%
Gamma-cadinene	0.28%
Delta-cadinene	24.18%
Calamenene	7.98%
Zonarene	7.15%
Trans-cadina-1,4-diene	0.52%
Alpha-colocalene	1.26%
Gamma-selinene	0.13%
Beta-calacorene	2.72%
Oxygenated sesquiterpene MW = 220	0.27%
Gamma-calacorene	0.64%
Caryolan-8-ol	0.08%
Glenol	2.76%
Cedrol	1.55%
1-Epi-cubenol	8.03%
1,10-Epi-cubebol	6.29%
Alpha-muurolol	1.28%
Oxygenated sesquiterpene MW = 218	1.10%
Alpha-cadinol	0.64%
Selin-11-en-4-alpha-ol	0.36%
14-Hydroxy-9-epi-(E)-caryophyllene	1.70%
Cadalene	1.16%
Oxygenated sesquiterpene MW = 222	0.67%
Oxygenated sesquiterpene MW = 222	0.17%
Oxygenated sesquiterpene MW = 218	0.54%
Oxygenated sesquiterpene MW = 220	0.45%
14-Hydroxy-delta-cadinene	0.27%
Abietatriene	0.02%
<b>TOTAL</b>	<b>96.61%</b>