



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

Botanical name :	<i>Juniperus oxycedrus L.</i>
Commercial name :	Organic Cade
Batch number :	060525-4
Geographical origin :	France

Physical and chemical data :

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

Table of components :

Components	Contents
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-muuro-la-3,5-diene	0.28%
Alpha-humulene	4,00%
Trans-cadina-1(6),4-diene	4.84%
Gamma-muuro-lene	0.49%
Cis-4,10-epoxy-amorphane	0.07%
Sesquiterpenic Hydrocarbure MW = 204	0.10%
Beta-selinene	0.81%
Trans-muuro-la-4(14),5-diene	1.29%
Sesquiterpenic Hydrocarbure MW = 204	0.21%
Alpha-muuro-lene	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-muuro-lol	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%
TOTAL	96.61%