NHR ORGANIC OILS
24 CHATHAM PLACE, BRIGHTON, BN1 3TN, UK
+44 (0)1273 746505 info@nhrorganicoils.com www.nhrorganicoils.com

Certificate of Analysis & Gas Chromatography
Organic Grand Fir Essential Oil
(Abies grandis)

Product: ORGANIC GIANT FIR OIL / Abies grandis
Batch number: 201126-7
Origin: France

GENERALS PROPERTIES

Used part	Twigs and needles
Organic certification	ORGANIC PRODUCT Certified organic
Manufacturing method	By water-steam distillation of twigs and needles
INCI	Abies grandis oil

ORGANOLEPTIC PROPERTIES

	Norm	Result	Conformity
Appearance	Limpid liquid	Limpid liquid	CONFORM
Color	Colorless to pale yellow	Pale yellow	CONFORM
Odour	Resinous, fruity	Resinous, fruity	CONFORM

TECHNICAL DATA

	Norm	Result	Conformity
Relative density (2.2.5)	[0.880 ; 0.900]	0.893	CONFORM
Refractive index at 20°C - ISO 280	[1.472 ; 1.480]	1.477	CONFORM
Angular rotation at 20°C in ° - ISO 592	[-25.0 ; -35.0]	-27.9	CONFORM

MAIN CONSTITUENTS IN %

	Norm	Result	Conformity
alpha-Tricyclène	[0.0 ; 2.0]	0.9	CONFORM
alpha-Pinène	[2.0 ; 10.0]	5.8	CONFORM
Camphène	[5.0 ; 15.0]	9.9	CONFORM
beta-Pinène	[20.0 ; 30.0]	27.2	CONFORM
Myrcène	[0.0 ; 1.5]	0.7	CONFORM
Limonène	[0.5 ; 5.0]	2.5	CONFORM
beta-Phellandrène	[6.0 ; 15.0]	11.7	CONFORM
Citronellal	[0.0 ; 2.0]	1.3	CONFORM
Citronellol	[0.0 ; 2.0]	0.9	CONFORM
Acétate de bornyle	[10.0 ; 20.0]	15.3	CONFORM
Acétate de citronellyle	[0.5 ; 4.0]	2.5	CONFORM
delta-Cadinène	[1.0 ; 5.0]	3.2	CONFORM
Methylchavicol	[0.0 ; 0.01]	0.00	CONFORM
Methyl eugénol	[0.0 ; 0.005]	0.000	CONFORM
Safrol	< 10 ppm	< 10 ppm	CONFORM