NHR ORGANIC OILS
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Certificate of Analysis & Gas Chromatography
Organic Cardamom Essential Oil
(Elettaria cardamomum)

1. General Information:			
INCI:		Elettaria Cardamomum Seed Oil	
Batch No.:		**130726-2**	
CAS No:		8000-66-6 / 85940-32-5	
Production:		Water steam distillation of seed	
Aspect:		Liquid	
Colour:		Colourless to pale yellow	
Odour:		Characteristic cineol , spicy	
		Value	**Specification**
Specific gravity 20 °C (g/cm³)		0.924	0,890 – 0,960
Refractive index 20°C:		1.460	1,450 – 1,470
Flashpoint (°C)		+58 °	
2. Chromatography Analytical Results (% GC area according to ISO standard)			
Allerg.	**Molecule**	**Value**	**Spec. / Espec.**
*	Limonene	0.96 %	Max. 3.0 %
	1,8-Cineole	28,86 %	25 – 37 %
*	Linalool	4.30 %	1 – 6 %
*	Alpha-Terpineol	2.25 %	1 – 3 %
	Linalyl Acetate	5.39%	2 – 8 %
	Alpha Terpinyl Acetate	39.77 %	35 – 45 %
*	Geranyl Acetate	0.21 %	
*	Neral	0.57 %	
*	Geranial	0.82 %	
*	Beta-Pinene	0.45 %	
*	Aplha-Pinene	1.82 %	1 – 2 %
* Allergens of Mandatory Statement The analysis certificate does not exempt customers from ensuring the quality of the products during processing.			
Observations			
Store tightly closed in a cool, dry place away from light.			
Conclusion			
Match specifications.			