



NHR ORGANIC OILS
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Certificate of Analysis & Gas Chromatography
Organic Grapefruit Essential Oil - Low furocoumarin
(Citrus paradisi)

Botanical name :	<i>Citrus paradisi Macfad.</i>
Commercial name :	Organic White Grapefruit LFC
Batch number :	060525-3

Physical and chemical data :

	Standards	Results of analysis
Appearance	Liquid	Conform
Colour	Colourless to pale yellow	Conform
Odour	Sweet, fruity	Conform
Specific gravity at 20°C	0.840 to 0.870	0.8490
Refractive index at 20°C	1.465 to 1.485	1.4760
Optical rotation at 20°C	+75° to +105°	+92.00°
Flash point	+40°C to +55°C	

Table of components (1) :

Components	Contents
Alpha-pinene	0.51%
Beta-pinene	0.09%
Sabinene	0.21%
Beta-myrcene	1.80%
Alpha-phellandrene	0.03%
Limonene	96.15%
Beta-phellandrene	0.29%
Gamma-terpinene	0.04%
Trans-beta-ocimene	0.11%
Para-cymene	0.01%
Alpha-terpinolene	0.01%
n-Octanal	0.13%

n-Nonanal	0.03%
Cis-Limonene Oxide	0.02%
Trans-Limonene Oxide	0.02%
Citronellal	0.02%
Alpha-copaene	0.02%
n-Decanal	0.13%
Linalool	0.25%
Beta-cubebene	0.02%
n-Octanol	0.01%
Trans-beta-caryophyllene	0.02%
Neral	0.02%
Alpha-terpineol	0.01%
Geranial	0.03%
Carvone	0.01%
TOTAL	99.99%