



NHR ORGANIC OILS
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Certificate of Analysis & Gas Chromatography
Organic Bitter Orange Essential Oil
(Citrus aurantium)

Botanical name : *Citrus aurantium L. subsp. amara var. pumilia*
Commercial name : Organic Bitter Orange
Batch number : 290424-2
Geographical origin : Egypt

Physical and chemical data :

	Standards	Results of analysis
Appearance	Liquid	Conform
Colour	Greenish yellow to brown	Conform
Odour	Fresh, orange peel-like	Conform
Specific gravity at 20°C	0.840 to 0.860	0.8502
Refractive index at 20°C	1.460 to 1.480	1.4750
Optical rotation at 20°C	+85° to +98°	+92.20°
Flash point	+40°C to +50°C	

Table of components :

Components	Contents
Alpha-pinene	0.43%
Sabinene	0.19%
Beta-pinene	1.77%
Limonene	92.01%
TOTAL	94.40%