



NHR ORGANIC OILS
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Certificate of Analysis & Gas Chromatography
Organic Oregano Essential Oil
(Origanum vulgare)

Product name :	Oregano Essential Oil
Product Type :	Essential oil
Label Name :	Oregano Organic Essential Oil
Batch No :	160324-2
Origin :	Greece

TECHNICAL INFORMATION

<u>Organoleptic</u>	<u>Result</u>
Aroma :	Conforms to standard
Appearance :	Conforms to standard
Color :	Conforms to standard

PHYSICAL CONSTANTS AT 20° C

<u>Analysis</u>	<u>Method</u>	<u>Result</u>
Refractive Index :	USP <831>	1.505
Specific Gravity :	USP<841>	0.931
Optical Rotation :	USP <781>	-2.2°

ANALYSIS METHOD:

Gas chromatography (GC/FID) +GC/MS-SCAN
Components are identified by GC-MS being processed by "Total Ion Chromatogram" mode, and quantified by GC-FID, using the relative area percentage

GC ANALYSIS

<u>Compounds</u>	<u>CAS No</u>	<u>%</u>	<u>Chemical Family</u>
Alpha-Pinene	80-56-8	0.17	Monoterpene
Alpha-Thujene	2867-05-2	0.19	Monoterpene
Beta-Pinene	127-91-3	0.21	Monoterpene
Beta-Myrcene	123-35-3	0.23	Monoterpene
Alpha-Terpinene	99-86-5	0.50	Monoterpene
Limonene	599-27-5	0.47	Monoterpene
1,8-Cineole	470-82-6	0.72	Monoterpenic Ether
Gamma-Terpinene	99-85-4	5.55	Monoterpene
Para-Cymene	99-87-6	5.52	Monoterpene
1-Octen-3-ol	3391-86-4	0.29	Aliphatic Alcohol
Camphor	76-22-2	0.51	Monoterpenic Ketone
Linalool	78-70-6	2.15	Monoterpenic Alcohol
Carvacrol Methyl Ether	6379-73-3	0.17	Aromatic Ether
Terpinen-4-ol	562-74-3	0.45	Monoterpenic Alcohol
Trans-Beta Caryophyllene	87-44-5	1.53	Sesquiterpene
Alpha-Humulene	6753-98-6	0.24	Sesquiterpene
Alpha-Terpineol	98-55-5	0.53	Monoterpenic Alcohol
Borneol	507-70-0	0.72	Monoterpenic Alcohol
Thymol	89-83-8	1.69	Monoterpenic Phenol
Carvacrol	499-75-2	76.81	Monoterpenic Phenol
Camphene	79-92-5	0.01	Monoterpene
Alpha-Phellandrene	99-83-2	0.02	Monoterpene
Beta-Phellandrene	555-10-2	0.01	Monoterpene
Beta-Bisabolene	495-61-4	0.07	Sesquiterpene