



24 CHATHAM PLACE, BRIGHTON, BN1 3TN (UK)
TEL. (UK) 0845 310 8066 International Tel. +44 1273 746505
EMAIL: info@nhrorganicoils.com Web Site: www.nhrorganicoils.com

Certificate of Analysis & Gas Chromatography
Organic Cistus Essential Oil
(Cistus ladaniferus)

Batch Number : 130120-3

Origin : Spain

Analysis features :

Agilent GC System 7890A - Column : HP INNOWAX polaire : 60 m ´ 0,25 mm ´ 0,5 µm

Temperature program : 8 min to 95 °C – 4 °C/min till 190 °C - 29 min to 190°C

Carrier gas H2 : 30 psis/FID. Injector : split. Sample : 0.1 µl without dilution

The compounds of the essential oils are identified by retention times.

% Are calculated from the peak areas given by the GC / FID without the use of a correction factor.

Physical characteristics:

Density at 20°C	0,900
Refractive index at 20°C	1,477
Optical rotation at a 20°C	-13,9

Production date:

August 2019

GC Results

COMPONENTS	%	Standard
TRICYCLENE	0,79	
a-PINENE	37,58	30 - 48
a-FENCHENE	0,11	
CAMPHENE	4,29	2 - 7
b-PINENE	0,53	
SABINENE	0,12	
PINADIENE	1,20	
b-MYRCENE	0,07	
a-PHELLANDRENE	0,29	
a-TERPINENE	0,97	
LIMONENE	1,56	
1,8-CINEOLE + b-PHELLANDRE	0,83	
g-TERPINENE	1,74	
STYRENE	0,08	
p-CYMENE	3,16	1,5 - 4
TERPINOLENE	0,54	
2,2,6-TRIMETHYLCYCLOHEXANONE	2,82	1 - 4
Cis-OXYDE DE ROSE	0,12	
Trans-OXYDE DE ROSE	0,05	
a-p-DIMETHYLSTYRENE	1,44	0,4 - 2,5
b-THUYONE	0,23	
VITISPIRANE Mw=192	0,30	
ISOLEDENE + CYCLOSATIVENE	0,43	
a-COPAENE	0,93	
3-NONEN-2-ONE	0,61	
CAMPHRE	0,64	
PINOCAMPHONE	0,14	
LINALOL	0,31	
ISOPINOCAMPHONE	1,09	
ACETATE DE BORNYLE	4,28	2,5 - 6
NOPINONE	0,40	
TERPINENE-4-OL	1,58	
b-CARYOPHYLLENE	0,42	
b-COPAENE	0,29	
MYRTENAL	0,86	
Trans-PINOCARVEOL	4,70	2 - 6,5
ALLO-AROMADENDRENE	0,20	
NERAL	0,13	

COMPONENTS	%	Standar
BORNEOL	1,25	0,5 - 3
a-TERPINEOL	0,58	
LEDENE	2,28	1 - 6
VERBENONE	0,39	
CARVONE	0,12	
d-CADINENE	0,69	
g-CADINENE	0,12	
CADINA-1,4-DIENE	0,13	
GERANIOL	0,30	
p-CYMENE-8-OL	0,12	
a-CALACORENE	0,24	
PALUSTROL	0,17	
LEDOL	0,59	
GLEENOL Mw=222	0,20	
VIRIDIFLOROL	1,81	1,5 - 4
EUGENOL	0,04	
DEHYDROVIRIDIFLOROL	0,26	
CARVACROL	0,10	
TOTAL	85,11	