

CERTIFICATE OF ANALYSIS



SUBSTANCE IDENTIFICATION

Name	Juniper berry oil
INCI	Juniperus Communis Fruit Oil
CAS Nr.	8002-68-4 / 73049-62-4 / 84603-69-0
EINECS Nr.	283-268-3
Batch	J2310.01
Production date	05 2022
Expiration date	05 2027
Specification	Ph Eur 10.0

GENERAL CHARACTERISTICS

Type of product	100% Natural essential oil
Quality	Conventional product
Botanical name	Juniperus communis L., Cupressaceae
Type of production	Water steam distillation
Plant part	Berries
Country of origin	Romania

SENSORICAL CHARACTERISTICS

Parameter	Specification requirements	Result
Appearance	Colourless pale yellow or pale greenish liquid	Complies
Odor	Characteristic	Complies

PHYSICAL CHARACTERISTICS

Parameter	Specification requirements	Result
Specific density (20°C)	0.857 - 0.876	0.863
Refractive index (20°C)	1.471 - 1.483	1.474
Optical rotation (20°C)	(-) 15° to (-)0.5°	-11.4°
Peroxide value	max 20	< 1

PURITY

Parameter	Parameter	Result
Fatty acids and resinified essential oils	Not present	Ustreza
Additives	Not present	Ustreza

CHEMICAL CHARACTERISTICS (GC-FID)



Parameter	Specification requirements	Result
α Thujene		1.5 %
α Pinene	20 - 50 %	34.7 %
Sabinene	max 20 %	15.5 %
β Pinene	1.0 - 12 %	5.9 %
β Myrcene	1.0 - 35 %	13.6 %
α Phellandrene	max 1.0 %	0.6 %
p-Cymene		1.2 %
Limonene	2.0 - 12 %	5.4 %
γ Terpinene		1.0 %
α Terpinolene		1.0 %
Terpinene-4-ol	0.5 - 10 %	3.6 %
Bornyl acetate	max 2.0 %	0.2 %
β Caryophyllene	max 7.0 %	2.6 %
α Humulene		2.0 %
Germacrene D		2.8 %
Caryophyllene oxide		1.8 %

PACKAGING AND STORAGE

Parameter	Requirements
Standard packaging	ALU, HDPE
Storage	In tight closed and full containers, at cool, dry and well ventilated place below 25°C
Reanalysis	When opened for more than 24 months quality should be checked before use.

ASSESSMENT

Quality conforms to the specification.

Approved by

Neža Rangus Ignjatović

Date

09.11.2023

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