Batch Number:
20260907-JUCO1FRG

ALTRAFLORA
NATURAL EXTRACTS

Manufactured:
07.09.2026

TECHNICAL DATA SHEET

Product Information

Product Name: Juniper berry food fragrance oil (origin: Turkey), PN AF-JUCO1FRG

Scientific name: *Juniperus communis*

Parts utilized for extraction: Berries (cones), dried

Appearance: Clear, colourless to pale-yellow mobile liquid

Aroma: Fresh, resinous and woody, with a green-herbaceous body

Solubility: Insoluble in water; soluble in ethanol and fixed oils

Raw Material Specification

Analysis	Method	Result
Total ash for herb	Ph. Eur. (2.4.16)	<4%
Pesticides	GC/MS, LC-MS/MS	Complies with Ph. Eur. (2.8.13)
Aflatoxins (G1, G2, B1, B2)	AOAC 999.07	Complies with Ph. Eur. (2.8.18)
Ochratoxin A	AOAC 2004.10	Complies with Ph. Eur. (2.8.22)
Benzo(a)pyrene (PAH)	JOSS 2002 25, pp. 96–100	<10 ppb

Extract Specification

Analysis	Method	Specification	Result
Major components:			
α-Pinene	GC-FID, area normalisation (AF-LABGC003)	40 – 55 %	46.90 %
β-Myrcene		30 – 40 %	36.32 %
Limonene		2 – 5 %	2.85 %
β-Pinene		> 1.0 %	1.46 %
p-Mentha-1(7),8-diene		> 1.0 %	1.37 %
(E)-Caryophyllene		> 1.0 %	1.20 %
TOTAL		**> 85 %**	**90.10 %**
Identified compounds (GC-FID area)	GC-FID, area normalisation (AF-LABGC003)	> 95 %	98.25 %
Arsenic (As)	ICP-OES (In-house method)	N.D. (< 1 ppm)	N.D.
Cadmium (Cd)		N.D. (< 3 ppm)	N.D.
Lead (Pb)		N.D. (< 1 ppm)	N.D.
Mercury (Hg)		N.D. (< 0.1 ppm)	N.D.
Total aerobic microbial count (cfu/g)	ISO 4833-1	<10000	Complies
Yeast & mold (cfu/g)	ISO 21527-2	<100	Complies
Escherichia coli	ISO 16649-2	N.D. (in 1 g)	N.D.
Salmonella	ISO 6579	N.D. (in 25 g)	N.D.
Pseudomonas aeruginosa	ISO 13720	N.D. (in 1 g)	N.D.
Staphylococcus aureus	ISO 6888-1	N.D. (in 1 g)	N.D.

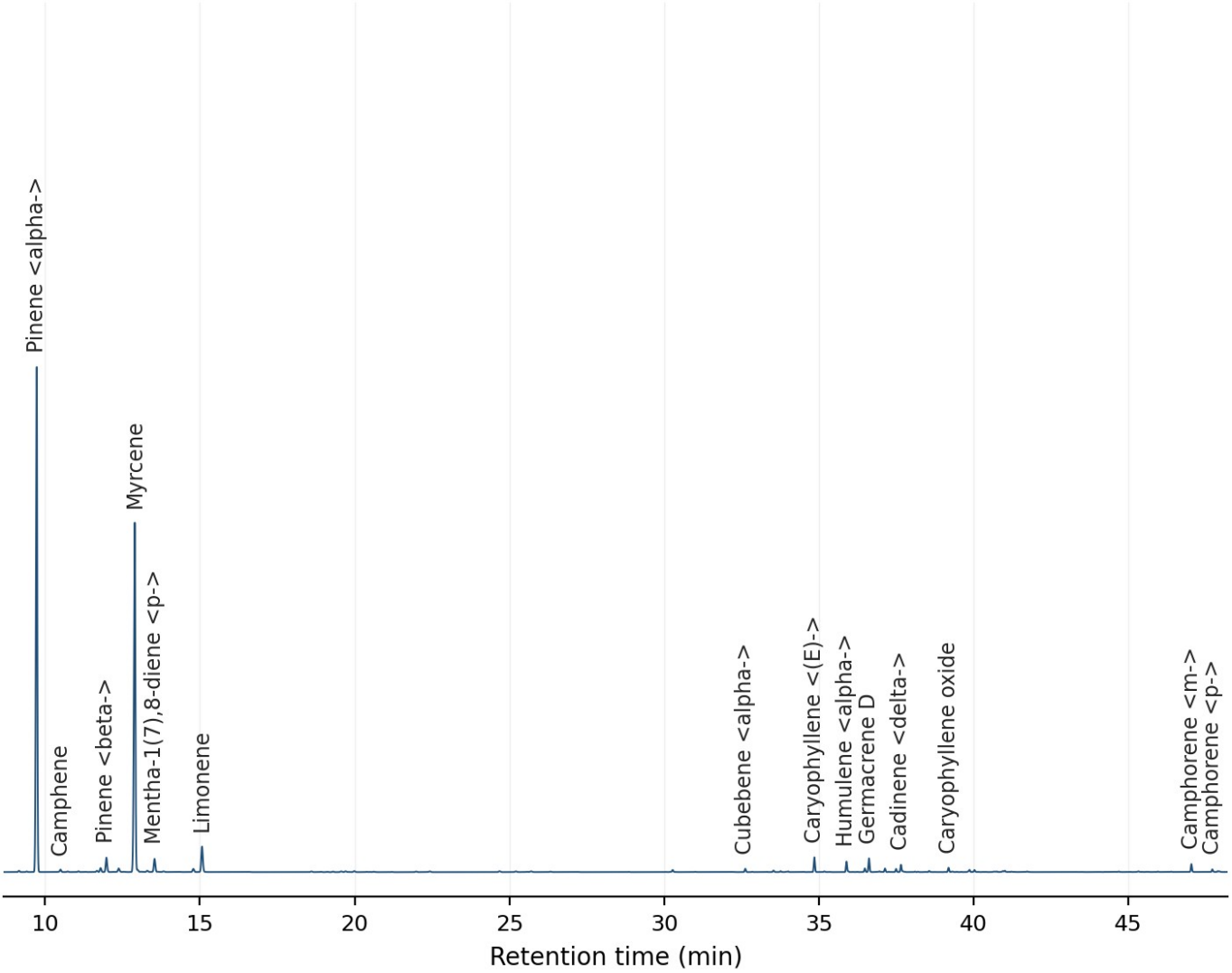
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Chromatogram



Additional Data

Storage conditions: Store in cool and dry place, keep away from intense light and high heat.

Carrier: Fractionated coconut oil (caprylic/capric triglyceride, MCT).

Packaging: 10 g, 15 g and 30 g amber glass bottles with food-grade fine-mist spray head.

Shelf life: 24 months

Dosage and use: Juniper berry is the defining botanical of gin and is used in bitters, vermouth and spirit bases, in savoury marinades and game seasoning, and in fresh-woody fragrance accords. The monoterpene fraction — chiefly α-pinene and myrcene — carries the characteristic resinous lift. Use sparingly in flavour applications, where levels well below 0.05 % are typical. Not recommended for use during pregnancy. Compositional figures in the Extract Specification and the chromatographic profile refer to the essential-oil fraction of the product, determined by GC-FID area normalisation; the carrier is stated separately above.

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Full chromatographic profile (GC-FID)

Name	CAS	RT (min)	Content (%)
3-Methylapopinene	4889-83-2	9.153	0.12
α-Thujene	2867-05-2	9.404	0.05
α-Pinene	**80-56-8**	**9.726**	**46.90**
Camphene	79-92-5	10.495	0.27
Thuja-2,4(10)-diene	36262-09-6	10.728	0.06
Santolina triene	2153-66-4	11.076	0.07
β-Pinene	**127-91-3**	**11.978**	**1.46**
α-Fenchene	471-84-1	12.375	0.44
β-Myrcene	**123-35-3**	**12.895**	**36.32**
cis-2,6-Dimethyl-2,6-octadiene	2492-22-0	13.301	0.13
p-Mentha-1(7),8-diene	**499-97-8**	**13.534**	**1.37**
δ-3-Carene	13466-78-9	13.820	0.08
p-Cymene	99-87-6	14.788	0.35
Limonene	**138-86-3**	**15.068**	**2.85**
Isogeranial	55722-59-3	19.709	0.07
Terpinen-4-ol	562-74-3	24.685	0.11
α-Terpineol	98-55-5	25.212	0.10
Bornyl acetate	76-49-3	30.278	0.20
α-Cubebene	31141-66-9	32.625	0.28
α-Copaene	138874-68-7	33.538	0.14
cis-Geranyl acetate	141-12-8	33.767	0.07
(E)-Caryophyllene	**13877-93-5**	**34.858**	**1.20**
β-Copaene	18252-44-3	35.181	0.06
α-Humulene	6753-98-6	35.896	0.89
γ-Muurolene	30021-74-0	36.488	0.29
Germacrene D	105453-16-5	36.624	1.12
γ-Muurolene	30021-74-0	36.962	0.06
α-Muurolene	10208-80-7	37.141	0.29
γ-Cadinene	38357-83-4	37.499	0.25
δ-Cadinene	16729-01-4	37.657	0.66
13-Hydroxyvalencene	438536-20-0	38.569	0.11
Caryophyllene oxide	1139-30-6	39.196	0.36
Germacra-4(15),5,10(14)-trien-1α-ol	81968-62-9	39.322	0.07
Humulene epoxide II	19888-34-7	39.869	0.21
6-Isopropenyl-4,8a-dimethyl-octahydronaphthalen-2-ol	-	40.032	0.18
τ-Cadinol	5937-11-1	40.751	0.05
β-Copaen-4α-ol	126060-41-1	40.950	0.11
14-Hydroxy-α-muurolene	105661-29-8	41.734	0.06
m-Camphorene	20016-73-3	47.042	0.61
p-Camphorene	20016-72-2	47.719	0.23

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