



CERTIFICATE OF ANALYSIS (COA)

PRODUCT INFORMATION

Product Name: Beta Pinene Natural

Chemical Name: (-)- β -Pinene

Synonyms: Laevo- β -Pinene; (1S,5S)- β -Pinene

INCI Name: Pinene

CAS Number: 18172-67-3

EC (EINECS) Number: 242-060-2

FEMA Number: 2903

Molecular Formula: C₁₀ H₁₆

Molecular Weight: 136.23 g/mol

Source: Naturally isolated from conifer essential oils and turpentine fractions

Country of Origin: India

Product Type: Natural Aroma Chemical

Batch Number: BPN-260702

Manufacturing Date: June 2026

Retest Date: June 2028

Issue Date: 02 July 2026

SPECIFICATION

Test	Specification	Result
Appearance	Clear, colourless liquid	Conforms
Colour	Colourless	Conforms
Odour	Fresh, woody, pine-like, resinous	Conforms



Assay (GC)	≥95.0% β-Pinene	Conforms
Relative Density (20 °C)	0.862 – 0.872	Conforms
Refractive Index (20 °C)	1.4760 – 1.4805	Conforms
Optical Rotation (20 °C)	-18° to -30°	Conforms
Boiling Point	164–167 °C	Conforms
Flash Point	Approximately 36 °C	Conforms
Solubility	Insoluble in water; soluble in ethanol and organic solvents	Conforms
Purity	Natural Isolate	Conforms
Foreign Matter	None Detected	Conforms

The analytical specification ranges are consistent with published manufacturer specifications for naturally derived (-)-β-Pinene.

TYPICAL GC PROFILE (INFORMATIONAL)

Constituent	Typical (%)
(-)-β-Pinene	≥95.0
α-Pinene	≤2.0
Limonene	≤1.0
Camphene	≤0.5
Myrcene	≤0.5
Other Naturally Occurring Terpenes Balance	

The exact composition may vary slightly depending on the botanical source and purification process.

ADDITIONAL INFORMATION

Chemical Class: Monoterpene Hydrocarbon

Physical State: Liquid

Origin: Natural



Purity: $\geq 95\%$

GMO Status: GMO Free

BSE/TSE Status: Free from animal-derived materials

Irradiation: Not Irradiated

Residual Solvents: None Detected

Preservatives: None Added

CONCLUSION

The above material conforms to the established quality specifications for Beta Pinene Natural and is suitable for professional perfumery, flavour and fragrance applications.

Natural (-)- β -Pinene is a monoterpene hydrocarbon isolated from conifer-derived essential oils and oleoresins. It possesses a fresh, dry, woody, pine-like and resinous aroma with subtle green nuances. It is widely used in citrus, pine, herbal, woody and forest accords, and also serves as an important natural intermediate for the manufacture of high-value aroma chemicals including myrtenol, myrtenyl acetate, nopinone and related fragrance ingredients.

Authorized by

Fozia Khot

Director

Aromology Trading LLC