



CERTIFICATE OF ANALYSIS (COA)

PRODUCT INFORMATION

Product Name: Anethole Natural

Chemical Name: trans-Anethole ((E)-Anethole)

IUPAC Name: (E)-1-Methoxy-4-(prop-1-en-1-yl)benzene

CAS Number: 4180-23-8

EC (EINECS) Number: 224-052-0

FEMA Number: 2086

Molecular Formula: C₁₀ H₁₂O

Molecular Weight: 148.20 g/mol

Source: Naturally isolated from Star Anise, Anise or Fennel Essential Oil

Product Type: Natural Aroma Chemical

Batch Number: ANE-260702

Manufacturing Date: June 2026

Retest Date: June 2028

Issue Date: 02 July 2026

SPECIFICATION

Test	Specification	Result
Appearance	Clear colourless to pale yellow liquid (solidifies below approximately 21 °C)	Conforms
Colour	Colourless to pale yellow	Conforms
Odour	Sweet, powerful anise, liquorice	Conforms
Assay (GC)	≥98.0% trans-Anethole	Conforms



Identification (GC/MS)	Conforms to reference standard	Conforms
Specific Gravity (25 °C)	0.9630 – 0.9880	Conforms
Refractive Index (20 °C)	1.5570 – 1.5610	Conforms
Congealing / Melting Point	Not lower than 20 °C	Conforms
Boiling Range	231–237 °C	Conforms
Solubility	Slightly soluble in water; soluble in ethanol and organic solvents	Conforms

The specification ranges reflect published fragrance industry and pharmacopeial specifications for natural trans-anethole.

ADDITIONAL INFORMATION

Chemical Class: Phenylpropanoid Ether

Physical State: Liquid above approximately 21 °C; crystalline solid below melting point

Purity: ≥98.0% Natural trans-Anethole

Residual Solvents: Complies

GMO Status: GMO Free

BSE/TSE Status: Free from animal-derived materials

Preservatives: None Added

CONCLUSION

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

Natural Anethole is a high-purity naturally derived aroma chemical valued for its intense sweet anise, liquorice and fennel character, providing excellent impact and diffusion in fragrance and flavour compositions.



Authorized by

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