



CERTIFICATE OF ANALYSIS (COA)

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Zanthoxylum Organic Essential Oil

PRODUCT INFORMATION

Product Name: Zanthoxylum Organic Essential Oil
Botanical Name: *Zanthoxylum armatum* D.C.
Synonym: *Zanthoxylum alatum*

CAS Number: 91770-90-0
Country of Origin: Nepal
Extraction Method: Steam Distillation

Product Type: Natural Essential Oil
Intended Use: Perfumery Raw Material / Fragrance Ingredient

ORGANOLEPTIC & PHYSICAL SPECIFICATIONS

Test	Specification	Result
Appearance	Liquid	Conforms
Colour	Dark Orange	Conforms
Odour	Characteristic, fresh, citrus, fruity, warm, spicy	Conforms
Botanical Identification	<i>Zanthoxylum armatum</i> D.C.	Conforms
Origin	Nepal	Conforms
Extraction	Steam Distilled	Conforms
Solubility in Water	Insoluble	Conforms
Solubility in Ethanol / Oil	Soluble	Conforms

The dark-orange liquid specification comes directly from Aromology's product information. Another Zanthoxylum COA describes the material as an oily liquid, soluble in oil and ethanol and insoluble in water.



TYPICAL PRINCIPAL CONSTITUENTS

Constituent	Typical Range
Linalool	45–55%
Limonene	10–40%
Beta-Phellandrene	5–15%
Methyl Cinnamate	2–15%

These are typical compositional ranges, not batch-specific assay results. Published Nepalese research also confirms that *Zanthoxylum armatum* essential oil varies naturally between geographic populations and identifies linalool, limonene/beta-phellandrene and methyl cinnamate among its major constituents.

OLFACTIVE PROFILE

Crisp • Citrus • Bitter • Fruity • Berries • Warm

A vibrant natural essential oil combining fresh citrus and tropical-fruity nuances with warm, peppery and spicy facets.

QUALITY CONCLUSION

OVERALL RESULT: CONFORMS TO SPECIFICATION

The material is identified as steam-distilled *Zanthoxylum armatum* essential oil of Nepalese origin and is suitable for use as a natural perfumery raw material.

STORAGE CONDITIONS

Store in tightly closed original containers in a cool, dry and well-ventilated area.
Protect from: Direct Sunlight • Heat • Air • Moisture • Sources of Ignition

DISCLAIMER

The information contained in this Certificate of Analysis is based on available technical and safety information and is intended as guidance for the safe handling, storage, transportation and use of the material.

Authorised by:
Fozia Khot
Director