CERTIFICATE OF ANALYSIS (COA)

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Aldehyde C-12 Lauric

Product Name: Aldehyde C-12 Lauric
CAS Number: 112-54-9
EC Number: 203-983-6

Batch Number: ARO-C12L-260212
Manufacturing Date: 12 February 2026
Best Before Date: 12 February 2028

Physical & Organoleptic Specifications

Test	Specification	Result
Appearance	Clear liquid to low melting solid	Conforms
Colour	Colourless to pale yellow	Conforms
Odour	Powerful fatty, aldehydic, waxy, citrus, soapy	Conforms
Solubility	Soluble in alcohol; insoluble in water	Conforms

Typical Analytical Characteristics

Parameter	Typical Range	Result
Specific Gravity @20°C	0.824 – 0.836	Conforms
Refractive Index @20°C	1.432 – 1.438	Conforms
Melting Point	8 – 12°C	Conforms
Boiling Point	Approximately 241°C	Conforms
Flash Point	Approximately 116°C	Conforms
Purity (GC)	≥98.0%	Conforms

Physical constants are based on supplier specification and standard reference values for Dodecanal.

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Quality Assessment

Quality Parameter	Result
Chemical Identity Verified	PASS
Organoleptic Evaluation	PASS
Appearance	PASS
Purity	PASS
Suitable for Perfumery Use	PASS

Storage Conditions

Parameter	Recommendation
Storage Temperature	Store at ambient temperature (10–30°C)
Light Exposure	Protect from direct light
Container	Keep tightly sealed in original container
Shelf Life	24 Months under recommended storage conditions

Statement of Conformity

Aromology certifies that this batch of Aldehyde C-12 Lauric (Dodecanal) conforms to internal quality specifications for perfumery aroma chemicals and has been evaluated for identity, appearance, organoleptic characteristics, and physical quality.

This material complies with the supplier's quality specification and is suitable for use in fragrance, cosmetic, and related aromatic applications.

Authorised by:
Fozia Khot
Director