



CERTIFICATE OF ANALYSIS (COA)

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Iso E Super® – IFF

Product Identification

Parameter	Details
Product Name	Iso E Super®
Manufacturer	International Flavors & Fragrances Inc. (IFF)
IFF IPC Number	91841
Chemical Name	Tetramethyl Acetyloctahydronaphthalenes
CAS Numbers	54464-57-2 / 68155-66-8 / 68155-67-9
EC Number	915-730-3
Molecular Formula	C ₁₆ H ₂₆ O
Molecular Weight	234.2 g/mol
Chemical Family	Alicyclic ketone
Grade	Professional perfumery grade

Analytical Specifications

Test	Specification	Representative Result	Method
Appearance	Clear liquid	Complies	Visual
Colour	Colourless to pale yellow	Pale yellow	Visual
Odour	Characteristic woody amber	Complies	Organoleptic
Identification	Conforms	Pass	GC-MS
Purity (Assay)	Manufacturer specification	99.1%	GC-FID
Relative Density (20 °C)	0.954–0.964	0.959	Density meter
Refractive Index (20 °C)	1.4970–1.5005	1.4988	Refractometer
Flash Point	≥130 °C	134 °C	Closed Cup
Water Content	≤0.20%	0.05%	Karl Fischer
Acid Value	≤1.0 mg KOH/g	0.2	Titration
Solubility in Ethanol	Soluble	Pass	Visual



Water Solubility	Slightly soluble	Complies	Visual
Chromatographic Profile	Matches reference	Pass	GC-MS

Representative values must be verified against the original IFF batch COA.

Composition Statement

Iso E Super® is a multi-constituent substance composed primarily of closely related tetramethyl acetyloctahydronaphthalene ketone isomers.

The exact isomer ratio is proprietary to IFF.

Organoleptic Profile

Attribute	Description
Olfactive Family	Woody Amber
Odour	Smooth woody amber
Character	Cedarwood, velvety, diffusive
Performance	Exceptional diffusion and substantivity
Function	Woody note, blender, fixative

Storage

Store:

- 15–25 °C
- Dry, well ventilated area
- Original tightly closed container
- Away from sunlight
- Away from oxidising agents

Shelf Life:

24 months under recommended storage conditions.

Disclaimer

This is a representative supplier-style Certificate of Analysis. Batch-specific values must be verified using the original IFF Certificate of Analysis before commercial release.

Authorised By:

Fozia Khot
Director