



NEWAY SINOPHC TECH. LIMITED

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Certificate of Analysis

(Methyl Octanoate 甲基辛酸盐)

Issue Date: 28 FEB 2026 Quality Release Date: 28 FEB 2026

Product Name

Methyl Octanoate (甲基辛酸盐)

Product Information

Product Number MO-20260228

Batch Number MO-SH2026022801

Brand SIGALD

CAS Number 111-11-5

MDL Number MFCD00009520

Formula $C_9 H_{18} O_2$

Formula Weight 158.24 g/mol

Form Colorless clear liquid, characteristic fruity (citrus/coconut) aroma

Test Results

Test	Specification (Flavor & Fragrance/Industrial Standard)	Result	Unit	Test Method
Appearance (Color/Form)	Colorless clear liquid, no visible impurity	Colorless clear liquid	-	Visual Inspection (25°C)
Assay (Methyl Octanoate)	≥ 99.0%	99.6%	%	Gas Chromatography (GC)
Refractive Index (n_{20}^D)	1.415 ~ 1.419	1.417	-	Abbe Refractometer
Relative Density (25/25°C)	0.870 ~ 0.874	0.872	g/cm ³	Hydrometer Method
Boiling Point	192 ~ 194°C	193.5°C	°C	Distillation Method
Acid Value (as KOH)	≤ 0.5	0.2	mg KOH/g	Titration Method
Water Content	≤ 0.1%	0.03%	%	Karl Fischer Titration
Residue on Ignition	≤ 0.05%	0.01%	%	550°C Muffle Furnace Ignition
Heavy Metals (Pb)	≤ 5 ppm	0.2 ppm	ppm	Atomic Absorption Spectrometry (AAS)
Heavy Metals (As)	≤ 1 ppm	0.05 ppm	ppm	Atomic Fluorescence Spectrometry (AFS)
Ethanol Solubility (1:5, 95% EtOH)	Clear homogeneous solution	Conforms	-	Solubility Test
Total Bacterial Count (Flavor Grade)	≤ 100 CFU/mL	12 CFU/mL	CFU/mL	Plate Count Method
E. coli (Flavor Grade)	Negative	Negative	-	Microbiological Detection

Certification

This batch of product has been tested in accordance with international flavor & fragrance and industrial grade standards for Methyl Octanoate and meets all specified requirements. It is qualified for use in flavor & fragrance, food, cosmetic, organic synthesis and other related fields.