



NEWAY SINOPHC TECH. LIMITED

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Certificate of Analysis

- D-Limonene

Product Name: D-Limonene **Issue Date:** 15 FEB 2026 **Quality Release Date:** 15 FEB 2026

Product Information

Product Number DL-20260215
Batch Number DL-SH2026021501
Brand SIGALD
CAS Number 5989-27-5
MDL Number MFCD00001539
Formula $C_{10}H_{16}$
Formula Weight 136.24 g/mol

Test	Specification (Industry Standard)	Result	Unit	Test Method
Appearance (Color)	Colorless	Colorless	-	Visual Inspection
Appearance (Form)	Clear liquid	Clear liquid	-	Visual Inspection
Assay (D-Limonene)	$\geq 98.5\%$	99.2	%	Gas Chromatography (GC)
Boiling Point	175-177°C	176.3	°C	Distillation Method
Melting Point	-74 to -71°C	-72.5	°C	Differential Scanning Calorimetry (DSC)
Refractive Index (20°C)	1.4720-1.4760	1.4742	-	Abbe Refractometer
Relative Density (20/20°C)	0.840-0.844	0.842	-	Hydrometer Method
Water Content	$\leq 0.05\%$	0.03	%	Karl Fischer Titration
Heavy Metals (Pb)	≤ 5 ppm	1.5	ppm	Atomic Absorption Spectrometry (AAS)
Heavy Metals (As)	≤ 1 ppm	0.2	ppm	Atomic Fluorescence Spectrometry (AFS)
Residue on Ignition	$\leq 0.01\%$	0.005	%	Gravimetric Method
Optical Rotation (20°C)	+95° to +105°	+99.8°	°	Polarimeter Method
Supplier Information	Confirmed	Confirmed	-	-
Registered Trademark	Confirmed	Confirmed	-	-

Certification

This batch of D-Limonene has been tested in accordance with the relevant industrial standards for fine chemical raw materials and meets all specified requirements. It is qualified for use.