



NEWAY SINOPHC TECH. LIMITED

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Certificate of Analysis (COA)

Product Information

Product Name Oleic Acid
Product Number OLE-20260213
Batch Number OLE-SH2026021301
Brand SIGALD
CAS Number 112-80-1
MDL Number MFCD00004439
Formula $C_{18}H_{34}O_2$ ($CH_3(CH_2)_7CH=CH(CH_2)_7COOH$)
Formula Weight 282.47 g/mol
Quality Release Date 13 FEB 2026

Test	Specification (Industry Standard)	Result	Unit	Test Method
Appearance (Color)	Pale yellow to light brown	Pale yellow	-	Visual Inspection
Appearance (Form)	Clear liquid (25°C)	Clear liquid	-	Visual Inspection
Acid Value	190–200 mg KOH/g	195.6 mg KOH/g	mg KOH/g	Titration Method
Iodine Value	80–100 g I ₂ /100g	88.2 g I ₂ /100g	g I ₂ /100g	Wijs Method
Saponification Value	192–202 mg KOH/g	196.8 mg KOH/g	mg KOH/g	Titration Method
Freezing Point	≤ 10°C	6.5°C	°C	Capillary Method
Moisture Content	≤ 0.5%	0.2%	%	Karl Fischer Titration
Ash Content	≤ 0.1%	0.03%	%	Gravimetric Method (550°C)
Heavy Metals (Pb)	≤ 5 ppm	1.0 ppm	ppm	Atomic Absorption Spectrometry (AAS)
Iron (Fe)	≤ 5 ppm	0.8 ppm	ppm	Spectrophotometry
Unsaturation (Oleic Acid)	≥ 80.0%	85.5%	%	GC-MS

Certification This batch of product has been tested in accordance with industrial standards for oleic acid and meets all specified requirements. It is qualified for use.

Issue Date: 13 FEB 2026