



NEWAY SINOPHC TECH. LIMITED

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Certificate of Analysis

Product Name: 1,3-DAPDM (1,3-Diaminopropane Dimaleate)

Product Information

Product Number DAPDM-20260228
Batch Number DAPDM-SH2026022801
Brand SIGALD
CAS Number 109-76-2 (1,3-Diaminopropane); 110-16-7 (Maleic Acid)
MDL Number MFCD00008200 (1,3-Diaminopropane)
Formula $C_{11}H_{18} N_2O_8$ ($C_3H_{10} N_2 \cdot 2C_4H_4O_4$)
Formula Weight 306.26 g/mol
Quality Release Date 28 FEB 2026

Test Results

Test	Specification (Industrial Standard)	Result	Unit	Test Method
Appearance (Color)	White to off-white	White	-	Visual Inspection
Appearance (Form)	Crystalline powder, no caking	Crystalline powder, no caking	-	Visual Inspection & 80-mesh Sieve Test
Assay (1,3-DAPDM, dry basis)	98.0-101.0%	99.5%	%	High Performance Liquid Chromatography (HPLC)
pH Value (5% aqueous, 25°C)	4.0-6.0	5.2	-	Digital pH Meter
Loss on Drying	≤ 0.5%	0.18%	%	Karl Fischer Titration
Residue on Ignition	≤ 0.1%	0.03%	%	Gravimetric Method
Heavy Metals (Pb)	≤ 5 ppm	0.6 ppm	ppm	Atomic Absorption Spectrometry (AAS)
Heavy Metals (As)	≤ 1 ppm	0.1 ppm	ppm	Atomic Fluorescence Spectrometry (AFS)
Total Bacterial Count	≤ 100 CFU/g	12 CFU/g	CFU/g	Plate Count Method
E. coli	Negative	Negative	-	Microbiological Detection
Solubility (in water, 25°C)	≥ 100 g/L	125 g/L	g/L	Gravimetric Method
Melting Range	175-180°C (decomp.)	176.5-178.8°C	°C	Melting Point Apparatus
Supplier Information	Confirmed	Confirmed	-	-
Registered Trademark	Confirmed	Confirmed	-	-

Certification

This batch of product has been tested in accordance with industrial standards for 1,3-Diaminopropane Dimaleate and meets all specified requirements. It is qualified for use as organic synthesis intermediate, epoxy resin curing agent and coating/adhesive raw material.

Issue Date:28 FEB 2026