



NEWAY SINOPHC TECH. LIMITED

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Certificate of Analysis

(1,6DAHDM - 1,6-Diaminohexane Dimaleate)

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

Product Name

1,6DAHDM (1,6-Diaminohexane Dimaleate) 1,6 - 二胺己烷二马来酸盐

Product Information

Product Number 16DA-20260228

Batch Number 16DA-SH2026022801

Brand SIGALD

CAS Number 124-09-4 (1,6-Diaminohexane, base); N/A (dimaleate salt)

MDL Number MFCD00008200 (base); N/A (dimaleate salt)

Formula $C_{14}H_{24}N_2O_8$ (1,6-Diaminohexane Dimaleate)

Formula Weight 348.35 g/mol

Form White to off-white crystalline powder, free-flowing

Test Results

Test	Specification (Industry Standard)	Result	Unit	Test Method
Appearance (Color/Form)	White to off-white crystalline powder, no caking	Conforms	-	Visual Inspection (25°C)
Assay (1,6-Diaminohexane Dimaleate)	≥ 98.0%	98.7%	%	High Performance Liquid Chromatography (HPLC)
pH Value (5% aqueous solution, 25°C)	4.0 ~ 6.0	5.2	-	Digital pH Meter
Loss on Drying (105°C, 2h)	≤ 0.5%	0.2%	%	Gravimetric Method
Residue on Ignition	≤ 0.1%	0.03%	%	550°C Ignition Method
Free 1,6-Diaminohexane	≤ 0.5%	0.18%	%	HPLC
Heavy Metals (Pb)	≤ 5 ppm	0.4 ppm	ppm	Atomic Absorption Spectrometry (AAS)
Heavy Metals (As)	≤ 1 ppm	0.1 ppm	ppm	Atomic Fluorescence Spectrometry (AFS)
Chloride (Cl ⁻)	≤ 0.01%	0.003%	%	Volumetric Titration
Sulfate (SO ₄ ²⁻)	≤ 0.01%	0.002%	%	Turbidimetric Method
Water Solubility (25°C)	Fully soluble in water	Conforms	-	Solubility Test
Particle Size (D50)	50 ~ 200 μm	120 μm	μm	Laser Particle Size Analyzer

Certification

This batch of product has been tested in accordance with industrial standards for 1,6-Diaminohexane Dimaleate and meets all specified requirements. It is qualified for use in waterborne epoxy curing agents, coatings, adhesives and polymer synthesis fields.