



NEWAY SINOPHC TECH. LIMITED

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Certificate of Analysis (Ellaplex-I)

Issue Date: 20 FEB 2026 Quality Release Date: 20 FEB 2026

Product Name

Ellaplex-I (Isophorone Diamine Sesquimaleate 50%) 艾拉普莱克斯 - I (异佛尔酮二胺倍半马来酸盐 50%)

Product Information

Product Number EPI-20260220

Batch Number EPI-SH2026022001

Brand SIGALD

CAS Number 2855-13-2 (Isophorone Diamine, base); N/A (composite salt)

MDL Number MFCD00009601 (base); N/A (composite salt)

Formula Isophorone Diamine Sesquimaleate 50% (aqueous solution)

Formula Weight Variable (organic salt aqueous mixture)

Test Results

Test	Specification (Industry Standard)	Result	Unit	Test Method
Appearance (Color/Form)	Clear to pale yellow transparent liquid, no sediment	Conforms	-	Visual Inspection (25°C)
Assay (Isophorone Diamine Sesquimaleate)	49.0 ~ 51.0%	50.3%	%	High Performance Liquid Chromatography (HPLC)
pH Value (25°C)	6.0 ~ 8.0	6.8	-	Digital pH Meter
Color (APHA)	≤ 100	42	-	Pt-Co Colorimetric Method
Density (25°C)	1.10 ~ 1.16 g/cm ³	1.13	g/cm ³	Hydrometer Method
Free Isophorone Diamine	≤ 1.0%	0.35%	%	HPLC
Water Content	49.0 ~ 51.0%	49.7%	%	Karl Fischer Titration
Heavy Metals (Pb)	≤ 5 ppm	0.7 ppm	ppm	Atomic Absorption Spectrometry (AAS)
Heavy Metals (As)	≤ 1 ppm	0.2 ppm	ppm	Atomic Fluorescence Spectrometry (AFS)
Insoluble Matter in Water	≤ 0.1%	0.02%	%	Vacuum Filtration Method
Viscosity (25°C)	20 ~ 50 mPa·s	32	mPa·s	Brookfield Viscometer

Certification

This batch of product has been tested in accordance with industrial standards for Isophorone Diamine Sesquimaleate 50% and meets all specified requirements. It is qualified for use in waterborne epoxy curing, coatings and adhesive manufacturing.