



NEWAY SINOPHC TECH. LIMITED

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Certificate of Analysis

Product Name: Sodium Thiosulfate Pentahydrate

Product Information

Product Number: STS-Penta-CAS10102177-202602 Batch Number: STS-P2026022001 Brand: SIGALD
CAS Number: 10102-17-7 MDL Number: MFCD00149181 Formula: $\text{Na}_2\text{S}_2\text{O}_3 \cdot 5\text{H}_2\text{O}$ Formula Weight:
248.18 g/mol Quality Release Date: 20 FEB 2025

Test Item	Specification (GB/T 637-2006)	Result	Test Method
Appearance	Colorless transparent crystals, no mechanical impurities	Colorless transparent crystals	Visual Inspection
Purity (by Titration)	$\geq 99.0\%$	99.4%	Potentiometric Titration (GB/T 637-2006)
Melting Point Range	40-45°C (loses crystal water)	41.5-43.2°C	Capillary Melting Point Method
Ash Content	$\leq 0.1\%$	0.05%	Gravimetric Method (GB/T 7531-2008)
Crystal Water Content	36.0-37.5%	36.2%	Thermogravimetric Analysis (TGA)
Heavy Metals (Pb)	$\leq 0.0005\%$	0.0001%	Atomic Absorption Spectrometry (AAS)
Chloride (Cl^-) Content	$\leq 0.005\%$	0.002%	Silver Nitrate Titration
Solubility in Water (25°C)	≥ 120 g/100 mL	125 g/100 mL	Solubility Test Method

This batch of product has been tested in accordance with GB/T 637-2006 and meets all specified requirements for Sodium Thiosulfate Pentahydrate. It is qualified for use.

Issue Date: 20 FEB 2025