

## Certificate of Analysis

**Product Name:** Sodium Thiosulfate (Anhydrous)

### Product Information

Product Number: STS-CAS7779893-202802 Batch Number: STS-2028022001 Brand: SIGALD CAS Number: 7779-89-3 MDL Number: MFCD00003504 Formula:  $\text{Na}_2\text{S}_2\text{O}_3$  Formula Weight: 158.11 g/mol Quality Release Date: 20 FEB 2025

Test Item	Specification (Industrial Standard)	Result	Test Method
Appearance	Colorless transparent crystals or white crystalline powder, no mechanical impurities	White crystalline powder	Visual Inspection
Purity (by Titration)	$\geq 99.0\%$	99.5%	Potentiometric Titration (GB/T 637-2006)
Melting Point Range	48-52°C	49.2-50.8°C	Capillary Melting Point Method
Ash Content	$\leq 0.1\%$	0.06%	Gravimetric Method (GB/T 7531-2008)
Moisture Content (105°C, 2h)	$\leq 0.3\%$	0.18%	Karl Fischer Titration
Heavy Metals (Pb)	$\leq 0.0005\%$	0.0001%	Atomic Absorption Spectrometry (AAS)
Chloride ( $\text{Cl}^-$ ) Content	$\leq 0.005\%$	0.002%	Silver Nitrate Titration
Solubility in Water (25°C)	$\geq 100$ g/100 mL	108 g/100 mL	Solubility Test Method

This batch of product has been tested in accordance with industrial standards for Sodium Thiosulfate and meets all specified requirements. It is qualified for use. Issue Date: 20 FEB 2025