



# NEWAY SINOPHC TECH. LIMITED

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## Certificate of Analysis

**Product Name: A.T.G (Ammonium Thioglycolate)**

### Product Information

Product Number ATG-20260225  
Batch Number ATG-SH2026022501  
Brand SIGALD  
CAS Number 5421-46-5  
MDL Number MFCD00013054  
Formula  $C_2H_7NO_2S$  ( $HSCH_2COONH_4$ )  
Formula Weight 113.15 g/mol  
Quality Release Date 25 FEB 2026

### Test Results

Test	Specification (Industrial Standard)	Result	Unit	Test Method
Appearance (Color)	Colorless to pale yellow	Colorless	-	Visual Inspection
Appearance (Form)	Clear liquid, no turbidity	Clear liquid	-	Visual Inspection
Assay (Ammonium Thioglycolate)	80.0-85.0%	82.6%	%	Titration with Iodine Standard Solution
pH Value (25°C)	6.5-8.5	7.3	-	Digital pH Meter
Density (25°C)	1.10-1.15 g/cm <sup>3</sup>	1.12 g/cm <sup>3</sup>	g/cm <sup>3</sup>	Hydrometer Method
Free Ammonia	≤ 0.5%	0.21%	%	Distillation-Titration Method
Heavy Metals (Pb)	≤ 5 ppm	0.8 ppm	ppm	Atomic Absorption Spectrometry (AAS)
Heavy Metals (As)	≤ 1 ppm	0.1 ppm	ppm	Atomic Fluorescence Spectrometry (AFS)
Iron (Fe)	≤ 10 ppm	3.5 ppm	ppm	Spectrophotometry
Chloride (Cl <sup>-</sup> )	≤ 0.05%	0.02%	%	Volumetric Method
Sulfate (SO <sub>4</sub> <sup>2-</sup> )	≤ 0.05%	0.01%	%	Turbidimetric Method
Water Content	15.0-20.0%	17.2%	%	Karl Fischer Titration
Supplier Information	Confirmed	Confirmed	-	-
Registered Trademark	Confirmed	Confirmed	-	-

### Certification

This batch of product has been tested in accordance with industrial standards for Ammonium Thioglycolate and meets all specified requirements. It is qualified for use as cosmetic raw material (hair perming agent), metal cleaning agent and organic synthesis intermediate.

Issue Date:25 FEB 2026