



NEWAY SINOPHC TECH. LIMITED

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Certificate of Analysis (COA)

- Sodium Tripolyphosphate (STPP)

Issue Date: 20 February 2026

Product Name: Sodium Tripolyphosphate (STPP)

CAS Number: 7758-29-4

Product Number: STPP-20260220

Batch Number: STPP-SH2026022001

Brand: SIGALD

Formula: $\text{Na}_5\text{P}_3\text{O}_{10}$

Molecular Weight: 367.86 g/mol

Quality Release Date: 20 February 2026

| Test | Specification (Industrial/Food Grade) | Result | Unit | Test Method |
|--|--|--------------------------|---------|-------------------------------|
| Appearance | White, free-flowing crystalline powder | White crystalline powder | - | Visual Inspection |
| Assay ($\text{Na}_5\text{P}_3\text{O}_{10}$) | ≥ 94.0% | 95.2% | % | Titration (Quimica Analitica) |
| Total Phosphorus (as P_2O_5) | 56.0 - 58.0% | 57.1% | % | Gravimetric Method |
| Sodium Oxide (as Na_2O) | 41.0 - 43.0% | 42.0% | % | Calculated |
| pH Value (1% Aqueous Solution) | 9.5 - 10.5 | 9.8 | - | pH Meter (25°C) |
| Water Insoluble Matter | ≤ 0.10% | 0.03% | % | Gravimetric Filtration |
| Loss on Ignition | ≤ 0.5% | 0.21% | % | 800°C, 30 mins |
| Heavy Metals (as Pb) | ≤ 10 ppm | < 2 ppm | ppm AAS | |
| Arsenic (As) | ≤ 3 ppm | < 0.5 ppm | ppm AFS | |
| Fluoride (F^-) | ≤ 50 ppm | 12 ppm | ppm | Ion Selective Electrode |
| Chloride (Cl^-) | ≤ 0.05% | 0.01% | % | Turbidimetry |
| Sulfate (SO_4^{2-}) | ≤ 0.10% | 0.04% | % | Turbidimetry |

Certification

This batch of Sodium Tripolyphosphate conforms to the specifications of GB/T 9983 (Industrial Grade) and GB 25566 (Food Grade). All test results meet the required quality standards for use in detergents, water treatment, food processing, and ceramic applications.