

Industrial STPP Technical Data Sheet (TDS)

Sodium Tripolyphosphate | CAS 7758-29-4 | Industrial Grade

Version / Date: V1.0 / 2025-12-30

1. Product Identification

Item	Description
Product Name	Sodium Tripolyphosphate (STPP)
Synonyms	STPP; Sodium triphosphate
CAS Number	7758-29-4
Molecular Formula	Na ₅ P ₃ O ₁₀
Grade	Industrial Grade
Standard	GB/T 9983-2004 (or customer requirement)
Appearance	White powder or granular, free-flowing

This Technical Data Sheet provides typical information for industrial-grade STPP. Final product data is subject to the Certificate of Analysis (COA) for the shipped batch.

2. Technical Specifications (Typical - Industrial Grade)

Items	Specification
Appearance	White Powder or Granular
Assay (as Na ₅ P ₃ O ₁₀)	94.0% Min
P ₂ O ₅ Content	57.0% Min
Water Insoluble Matter	0.1% Max
Iron (Fe) Content	0.01% Max
pH Value (1% solution)	9.2 - 10.0
Whiteness	90% Min

Note: Specifications can be customized based on application requirements (e.g., detergents, ceramics, water treatment). Please request the latest COA for exact shipped-batch values.

3. Key Performance & Applications

- **Detergents & Cleaning:** Builder and water softener to enhance surfactant cleaning performance and control hardness ions.
- **Water Treatment:** Sequestering/dispersing agent to help reduce scale formation in industrial water systems.

- **Ceramics:** Deflocculant/dispersant to reduce slurry viscosity and improve processing stability.
- **Tanning, Paper & Industrial Processes:** Sequestration and dispersion support in relevant process systems.

4. Packaging & Logistics

Standard packaging options (custom packing available upon request):

- 25 kg bag (paper or PP/PE)
- 50 kg bag
- 1000 kg jumbo bag (FIBC)

For quotation, please provide required grade/spec, quantity, packaging preference, destination port, and intended application.

5. Storage & Shelf Life

Store in a cool, dry, and well-ventilated area. Keep containers tightly closed and protect from moisture.

Typical shelf life: 24 months in original unopened packaging under proper storage conditions.

6. Safety & Handling

Follow good industrial hygiene practices. Avoid generating or breathing dust. Use appropriate PPE such as safety glasses, gloves, and dust protection where needed. For detailed hazard and first-aid information, please consult the MSDS.

7. Documents Available Upon Request

- Certificate of Analysis (COA) - per batch
- Material Safety Data Sheet (MSDS)
- Technical Data Sheet (TDS)
- Regulatory statements (e.g., REACH status) where applicable

8. Contact

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