



# Sodium Tripolyphosphate

(STTP)

**CHEMICAL FORMULA:**  $\text{Na}_5\text{P}_3\text{O}_{10}$

**Molecular Weight:** 367.86

**Quality Standard:** GB/T9983-2004



## Properties

White powder, melting point 622°C, easily soluble in water, with remarkable chelate ability to metallic ion of  $\text{Ca}^{2+}$  and  $\text{Mg}^{2+}$  etc., STTP can soften hard water and make suspension to solution.

With alkalescence and non corrosiveness, STTP is one kind of inorganic surfactant, which has outstanding emulsification to lubricants and fat.

STTP is classified as low density 0.35~0.5g/cm<sup>3</sup>, medium density 0.51~0.65g/cm<sup>3</sup> and high density 0.66~0.9g/cm<sup>3</sup>.

## Technical Parameters

NO.	ITEM	Q1	Q2	Q3	
1	STTP ( $\text{Na}_5\text{P}_3\text{O}_{10}$ )	≥90%	≥85%	≥80%	
2	Phosphorus Pentoxide ( $\text{P}_2\text{O}_5$ )	≥57.0%	≥56.5%	≥56.0%	
3	Water Insolubles	≤0.10%	≤0.10%	≤0.15%	
4	Fe	≤0.007%	≤0.015%	≤0.030%	
5	PH Value ( 1% water solution)	9.2~1.0	9.2~1.0	9.2~1.0	
6	Particle Size	16 mash sifting %	≥95%	≥95%	≥95%
7		35 mash sifting %	≥90%	≥90%	≥90%
8		100 mash sifting %	≥40%	≥40%	≥40%
9	Whiteness	≥95%	≥85%	≥80%	

**Package & Storage:** woven bag with PE bag inside, 25kg/bag, 50kg/bag or 1000kg/bag. Moistureproof and waterproof, air storage prohibited.

## Application

Mainly used for synthetic detergent auxiliary, water-softener, soap synergist, leather tanning agent, effective dispersant of suspension process of paint, Kaolin, magnesium, calcium carbonate and so on. It is applied as oilproof agent in paper industries and as softener and thickener in foodstuff industries.

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