

Technical Data Sheet

Hefei TNJ Chemical Industry Co.,Ltd.

B911 Xincheng Business Center,Qianshan Rd. Hefei 230022 ChinaTel :(0086) 551 5418695Fax:(0086) 551 5418697Email:info@tnjchem.comSite:www.tnjchem.com

Sodium tripolyphosphate

Product Information

Chemical Name	Sodium tripolyphosphate
CAS #	7758-29-4
EINECS	231-838-7
Formula	Na ₅ O ₁₀ P ₃
Molecular Weight	367.86
Synonyms	STPP; Sodium triphosphate pentabasic; Sodium triphosphate
Chemical Structure	

Na

Description

Sodium triphosphate (STP), also sodium tripolyphosphate (STPP), or tripolyphosphate (TPP), is an inorganic compound with formula Na5P3O10. It is the sodium salt of the polyphosphate penta-anion, which is the conjugate base of triphosphoric acid. Sodium tripolyphosphate is a white crystal powder with melting point at 622°C. STPP is easily soluble in water. And aqueous solution appears acid. It is provided with remarkable chelating ability to some metal ions such as Ca²⁺ and Mg²⁺, etc. But it easily aborbs moisture or water.

Physical Properties

Melting point, °C	622
Appearance	White crystalline powder
Solubility	Soluble in water

Specification

Food Grade:	
STPP content, %	95.2
P2O5 content, %	57.2

Water insoluble, %	0.02
pH(1% solution)	9.6
Whiteness, %	92
Fluoride(as F), ppm	10
Arsenic(as As), ppm	0.9
Heavy metals(as Pb), ppm	3
Sulphate(as SO42-), %	0.036

Industry Grade:

Appearance	White granular powder		
Sodium tripolyphosphate,%	94.5		
P2O5,%	57.5		
pH(1% solution)	9.6		
Fe,%	0.006		
Whiteness	92		
Insoluble matter,%	0.08		
Apparent density	0.85		

Applications

In food industry, Sodium tripolyphosphate is used as quality improver in the process of canned food, fruit juice drinks, foodstuffs from milk or soybeans. It may tender the meat in canned ham and soften the skin of horse bean in canned horse bean. It may also serves as a softener or densifier in foodstuff industry.

For industry use, it is tanning agent for leather making, auxiliary for dyeing. Additionally, it is used as an oil contamination resistance agent in paper production.

Package

It is packed with polythene bag as the inner layer, and a compound plastic woven bag as the outer layer. The net weight of each bag is 25kg.

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B911 Xincheng Business Center	Tel :	(0086) 551 5418695
Qianshan Road, Hefei	Fax:	(0086) 551 5418697
230022 Anhui	Email:	info@tnjchem.com
China	Site:	www.tnjchem.com