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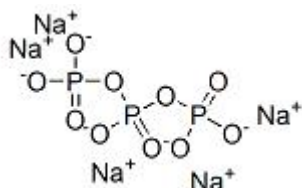
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Technical Data Sheet

Sodium Tripolyphosphate(Food Grade)

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	



Description

Sodium triphosphate (STP), known as 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 absorbs moisture or water.

The quality should always comply with GB standard(GB25566-2010) when it used for food production.

Physical Properties

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

Specification

Appearance	White Powder
Assay Na ₅ P ₃ O ₁₀ %	95.0 Min.

P2O5 %	57 Min.
Water Insoluble Matter %	0.05 Max.
Iron(Fe) %	150ppm Max.
pH Value (1% water solution)	9.5-10.0
Heavy Metal (as Pb) %	0.001 Max.
Arsenic (As) %	0.0003 Max.
Fluoride (F) %	0.003 Max.
Whiteness %	90 Min.
Density	0.7-0.95

Applications

For 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.

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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