

SODIUM TRIPOLYPHOSPHATE (STPP)



CAS Number: 7758-29-4

Other Names: Pentasodium triphosphate; STPP; Thermphos; Armofos;
Polygon; Tripoly; Rhodiaphos LV

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

PRODUCT INTRODUCTION

Sodium tripolyphosphate (STPP) is an inorganic compound with formula $\text{Na}_5\text{O}_{10}\text{P}_3$. It is the sodium salt of the polyphosphate penta-anion. It appears as white powder and is freely soluble in water.

PHYSICAL AND CHEMICAL PROPERTIES

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| P ₂ O ₅ Content | 55.8 |
| Bulk Density (g/mL) | 1.1 |
| Whiteness Level (%) | 83 |
| Sodium Tripolyphosphate (%) | 93 |
| Phase (form)1 (%) | 45 |
| On 425 micron (Tyler 35 mesh or equivalent), (%) | 2 |
| 150 micron (Tyler 100 mesh or equivalent) (%) | 76 |
| Iron (mg/kg) | 0.01 |
| pH | 9.8 |
| Water Insoluble (%) | 0.1 |

APPLICATIONS

- Sodium tripolyphosphate is used in a variety of cleaning products. It improves the ability of various ingredients in the detergent to penetrate the fibers of clothes (as well as other surfaces and materials to be cleaned) more deeply, and aids in foaming and bubbling
- It also gives a fresh appearance to meat and seafood while slowing down spoilage. The chemical helps to preserve the natural color of meat and fish and improves their texture. This is done by improving the water-holding capacity of animal products and consequently slowing down their drying

- Sodium tripolyphosphate is listed as a tanning agent for leather. Interestingly, the chemical is also used as an oil contamination resistance agent in paper production.
 - Other uses of sodium tripolyphosphate include petroleum refining, metallurgy, mine applications and water treatment.
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PACKAGING OPTIONS

Drums

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