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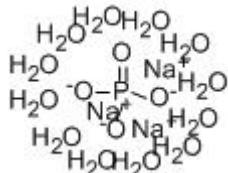
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Technical Data Sheet

Trisodium Phosphate Dodecahydrate

Product Information

| | |
|--------------------|---|
| Chemical Name | Trisodium Phosphate Dodecahydrate |
| CAS # | 10101-89-0 |
| EINECS | 231-509-8 |
| Formula | Na ₃ PO ₄ .12H ₂ O |
| Molecular Weight | 380.12 |
| Synonyms | TSP |
| Chemical Structure | |



Description

Trisodium phosphate is a white crystal powder or granule which is very easily soluble in water but it is insoluble in ethanol or carbon disulphide. Its water solution appears to be alkalinity. Trisodium Phosphate includes anhydrous and dodecahydrate Trisodium Phosphate and food grade and technical grade. Food grade Trisodium Phosphate is anhydrous but technical grade Trisodium Phosphate includes its anhydrous and dodecahydrate.

Physical Properties

| | |
|-------------------|---------------------------------|
| Melting point, °C | 73.4 |
| Appearance | White crystal powder or granule |
| Solubility | Soluble in water |
| pH(1% solution) | 12.1 |

Specification

Food Grade:

| | |
|-----------------|--------|
| Main content, % | 98min. |
|-----------------|--------|

| | |
|-------------------------|-----------|
| Water insoluble,% | 0.2max. |
| pH | 11.5-12.5 |
| Fluoride,as F,ppm | 50max. |
| Arsenic,as As,ppm | 3max. |
| Heavy metals, as Pb,ppm | 10max. |
| Lead,ppm | 4max. |
| Loss on drying,% | 2max. |

Technical Grade:

| | |
|-------------------------------|----------------|
| Appearance | White crystals |
| Main content, % | 98min. |
| Phosphorus pent-oxide, % | 18.3min. |
| Water insoluble, % | 0.1max. |
| Heavy metals, as Pb | / |
| Arsenic,as As | / |
| Fluoride,as F | / |
| Sulfate,as SO ₄ ,% | 0.5max. |
| Chloride,as Cl, % | 2.0max. |
| PH | 11.5-12.5 |

Applications

For technical purpose, Trisodium phosphate is typically used as softener in water treatment, boiler compound and rust inhibitor against metals and drying agent for the dyeing intermediate.

For food industry, Trisodium phosphate is used as a fungicide, emulsifier, acidity regulator, chelating agent, water retention agent and stabilizer in drink 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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