



Product Specification

Product Name: tri-SODIUM ORTHOPHOSPHATE Dodecahydrate
LR

Alternate Name(s) Tri-sodium phosphate; tertiary sodium phosphate; sodium phosphate,
Description tribasic
Colourless or white crystals. Odourless.

Properties

Chemical Formula: $\text{Na}_3\text{PO}_4 \cdot 12\text{H}_2\text{O}$
Molecular Weight: 380.12

Product Code: SL012
CAS No. 10101-89-0

General Information:

Soluble in water. Insoluble in alcohol. Loses 12H₂O at 100 °C. Non-flammable.
Corrosive to aluminium and many other metals.

Hazard and Safety Data

UN Group: Not allocated
Class: Not allocated
UN Number: Not allocated
Hazchem code: Not allocated
CS MSDS Code: 1CH78
Poison schedule: S5
Emergency Procedure Guide No.: N/A

Quality Specification

Assay: 98.0% min

Specific Properties and Impurities [Typical levels]:

| | |
|----------------------------|-----------|
| Specific gravity 20 °C | 1.62 |
| Melting point (decomposes) | 74 - 76°C |
| Insolubles | ≤ 0.025% |
| Nitrogen compounds (as N) | ≤ 0.005% |
| Chloride (Cl) | ≤ 0.005% |
| Sulfate (SO ₄) | ≤ 0.03% |
| Heavy metals (as Pb) | ≤ 0.01% |
| Iron (Fe) | ≤ 0.01% |

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