



CHEMATE

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## Technical Data Sheet

**Product Name:** Tri Sodium Phosphate (TSP) Tech grade

**Chemical formula:**  $\text{Na}_3\text{PO}_4 \cdot \text{XH}_2\text{O}$  (X=0, 12)

**Molecular weight:** 163.94/380.14

**Cas No.:** 7601-54-9

**Standard executed:** HG/T2517-2009

**Properties:** White or colorless crystals, efflorescent in air, easily soluble in water but not in organic solution. Its water solution is alkaline. PH value of 1% solution is 12.1; relative density at 1.62, melting point is 73.4°C

### Specification:

NO.	Specifications	$\text{Na}_3\text{PO}_4 \cdot 12\text{H}_2\text{O}$	$\text{Na}_3\text{PO}_4$
1	Main contents% $\geq$	98.0	98.0
2	Content ( $\text{P}_2\text{O}_5$ ) % $\geq$	18.3	39.5
3	Sulfate (as $\text{SO}_4$ )% $\leq$	0.5	0.5
4	Water insoluble% $\leq$	0.1	0.1
5	Chloride (as Cl) % $\leq$	0.4	0.4
6	As w/% $\leq$	0.005	0.005
7	Fe w/% $\leq$	0.01	0.01
8	PH(10g/L) %	11.5-12.5	11.5-12.5

### Application:

Used as water softener, cleaning agent in electroplating, boiler compound, metal antirusting agent, dyestuff intermediate desiccant, sugar juice purifying agent, photographic developer, coagulating agent of rubber latex, color fixer in fabric dyeing and flux in enamel ware manufacturing and so on.

### Package:

In double layer bags of 25 Kg or 50 Kg or 1000 Kg net. It must be stored in places well ventilated and dry.



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