

# TRISODIUM PHOSPHATE TYPES 18, 19

## TECHNICAL GRADE, CRYSTALLINE

### PRODUCT DESCRIPTION

Trisodium Phosphate Dodecahydrate is a white crystalline non-flammable substance with strong alkaline reaction and bulk density of 900 – 1000 g/dm<sup>3</sup>. It is odourless and easily soluble in water.

Abbrev. TSP 12  
CAS No.: 10101-89-0  
EINECS No.: 231-509-8  
Synonyms: Trisodium Phosphate Dodecahydrate  
Chemical formula: Na<sub>3</sub>PO<sub>4</sub>·12H<sub>2</sub>O  
Molecular weight: 380.12 g.mol<sup>-1</sup>

### PRODUCT SPECIFICATIONS

Parameter type 18	Unit	Specification	Typical analysis
P <sub>2</sub> O <sub>5</sub> content	%	min. 18.0	18.8
SO <sub>4</sub> <sup>2-</sup> content	%	max. 0.05	0.04
Cl content	ppm	max. 100	50
Water insoluble matters	%	max. 0.05	0.01

Parameter type 19	Unit	Specification	Typical analysis
P <sub>2</sub> O <sub>5</sub> content	%	min. 19.0	19.1
SO <sub>4</sub> <sup>2-</sup> content	%	max. 0.05	0.04
Cl content	ppm	max. 100	50
Water insoluble matters	%	max. 0.05	0.01

### PRODUCT APPLICATION

This product is used as softening agent against corrosion or scaling prevention in chemical water treatment. It is also used in the production of detergents, in cleaning compositions and synthetic rubber production. It is also used for additional softening of boiler water, as a polishing and degreasing agent in metal surface treatment and as a colour buffer in textile production.

### TRANSPORTATION AND STORAGE

The product can shipped in:

- plastic bags of 25 kg
- big bags of 1000 kg

Delivery - one-way pallets mostly of 1000 kg net weight and wrapped in foil. During transportation, the product must be protected against weather influences.

Storage - must be stored in dry place with temperature lower than 35°C and should be covered. Important is to keep the product from contamination and moisture.

Shelf life: 15 months from production date when stored properly.

### LAWS AND REGULATIONS

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

Certifications: ISO 9001, ISO 14001, ISO 22000, OHSAS 18001, BRC, KOSHER, HALAL and SEDEX

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