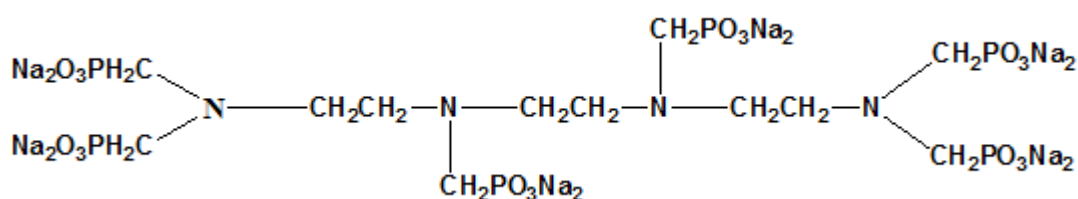


Sodium Salt of Triethylene-tetramine Hexmethanephonic Acid (TETHMP·Na12)

Molecular Formula: $C_{12}H_{24}O_{18}N_4P_6Na_{12}$

Molecular weight: 974

Structural Formula:



Properties:

TETHMP·Na12 has strong properties of scale and corrosion inhibition and high thermal stability, which decomposition temperature of dry product is 223 ~ 245 °C. It is easy to be degraded and safe to use. **TETHMP·Na12** can be used as scale inhibitor, efficient chelating agents, excellent barium sulfate scale inhibitor, which is widely used in cooling water treatment, peroxide bleaching stabilizer, detergent additives, municipal industrial clean water, geothermal water treatment and oilfield scale inhibitor.

TETHMP·Na12 is a strong complexing agent with high dissociation degree in water, and can form a stable complex with Ca^{2+} and Mg^{2+} and other metal ions. It can dissociate into twelve pairs of positive and negative ions in aqueous solution, chelate with two or more metal ions to form two or more complex of stereo macromolecule structure, loosely dispersed in water to destruct the normal crystalline of scale and prevent scale formation. It can effectively control the precipitation of carbonates, sulfates, phosphates, hydroxyl phosphates and ferric hydroxide and prevent the hard scale formation. In addition, **TETHMP·Na12** can form stable adduct with active oxygen compound (e.g. H₂O₂, etc.) to keep stability of active oxygen. As water quality stabilizer, it can be used to prevent scale in

industrial circulating cooling water, dyeing water, low-pressure boiler feed water. It also used as precious metal extraction agent, metal ions equispaced agent in electroplating industry, scale inhibitor of metal surface phosphate treatment system, cleaning agent of metal surface.

Specification:

Items	Index
Appearance	Amber transparent liquid
Solid content, %	50.0 min
Active content (as acid), %	25.0 min
Active content (as salt), %	35.0 min
Total phosphonic acid (as PO_4^{3-}), %	20.0 min
PH (1% water solution)	10.0-11.0

Package and Storage:

200L plastic drum,IBC(1000L),customers' requirement. Storage for ten months in shady and dry place.

Safety Protection:

Alkaline, avoid contact with eye and skin, once contacted, flush with water.

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