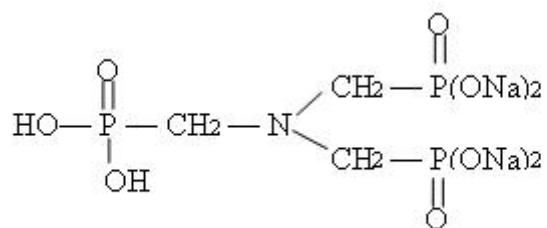


Tetra Sodium Salt of Amino Trimethylene Phosphonic Acid (ATMP.Na₄)



CAS No.	20592-85-2	EINECS No.	243-900-0
Molecular Formula	C ₃ H ₈ NO ₉ P ₃ Na ₄	Molecular Weight	387

Structural Formula



Product Features

ATMP.Na₄ is the fully neutralized form of ATMP. It is a cost-effective scale inhibitor based on ATMP acid. ATMP.Na₄ can inhibit the scale formation in water system, calcium carbonate(CaCO₃) especially. ATMP.Na₄ can be used in circulating cooling water system in power plant, oil refinery plant and oilfield injection applications. ATMP.Na₄ is preferred for use in neutral to acidic condition, no ammonia odor is generated.

Technical Specification

Items	Index
Appearance	Colorless or light yellow transparent liquid
Active content(ATMP), %	29.4-32.4
Active content(ATMP•Na ₄), %	38.0-42.0
pH(1% water solution)	6.0-8.0
Fe, mg/L	10.0 max
Density (20℃), g/cm ³	1.35-1.45



Applications & Usage

ATMP.Na₄ is mostly used with organophosphoric acid, polycarboxylic acid and salt to form all organic water treatment formulation for various circulating cooling water systems with different water quality conditions. Neutralized form and has excellent CaCO₃ scale inhibitor in oilfield applications. Compatible with other additives.




Scale & Corrosion Inhibition Performance

CaCO ₃ inhibition	CaSO ₄ inhibition	CaC ₂ O ₄ inhibition	CaF ₂ inhibition
Excellent	Good	Very Good	Excellent
Calcium Tolerance	Iron Control	Sequestration	Steel corrosion inhibition
Good	Yes	Good	Excellent

Package & Storage

ATMP.Na ₄ liquid			
25L Drum	200L Drum	1000L IBC	ISO Tank
			
Storage for ten months in shady room and dry place.			

Hazard & Safety Precaution

Hazard Information	Safety Precaution
Not regulated	  
Once contacted with eye and skin, flush with plenty of clean water.	

Related Products

- Amino Trimethylene Phosphonic Acid (ATMP)
- Penta Sodium Salt of Amino Trimethylene Phosphonic Acid (ATMP•Na₅)
- N-oxide, Pentapotassium Salt of Amino Trimethylene Phosphonic Acid(ATMP-N-Oxide)