

Amino Trimethylene Phosphonic Acid

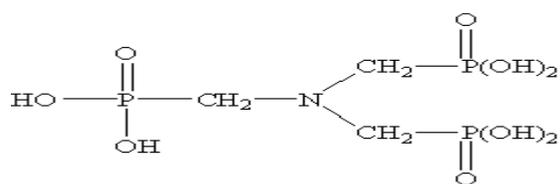
**ATMP**

**[CAS No.] 6419-19-8**

**Molecular Formula:**  $N(CH_2PO_3H_2)_3$

**Molecular weight:** 299.05

**Structural Formula:**



**Properties:**

This product has better antiscaling performance than that of polyphosphate through its excellent chelating ability, low threshold inhibition and lattice distortion process. It can prevent scale formation in water system. ATMP has good stability and is hard to be hydrolyzed in water system. At high concentration, it has good corrosion inhibition.

This product is widely used in industrial circulating cool water system and oilfield water pipeline, it can decrease scale formation and inhibit corrosion of metal equipment and pipeline. ATMP can be used as chelating agent in weave and dyeing industries and as metal surface treatment agent.

**Specification:**

items	index	
	HG/T 2841-1997	HG/T 2841-2005
Appearance	Colorless or light yellow transparent liquid	
Active component (ATMP) % ≥	50.0	50.0
ATMP content % ≥	—	40.0
Phosphorous acid (as PO <sub>3</sub> <sup>3-</sup> ) % ≤	5.0	3.5
Phosphoric acid (as PO <sub>4</sub> <sup>3-</sup> ) % ≤	1.0	0.8
Chloride (as Cl)% ≤	3.5	2.0
pH value (1% water solution)	1.5-2.5	1.5-2.5
Fe (as Fe <sup>3+</sup> ) (ppm) ≤	—	20.0
Density (20℃) g/cm <sup>3</sup> ≥	1.28	1.30

**Usage:**

This product is usually used together with organophosphoric acid, copolymer and zinc salt to built full organic alkaline water treatment agent, it can be used in many different circulating cool water system. The dosage of 1-10ppm is recommended, while the dosage of 20-60mg/L is preferred as corrosion inhibitor.

**Package and Storage:**

30kg in plastic barrel, or 200L in plastic barrel for export, 200kg or 250kg per barrel, or confirmed by clients. Storage for ten months in room shady and dry place.

**Safety Protection:**

Acidity, Avoid contact with eye and skin, once contacted, flush with water.