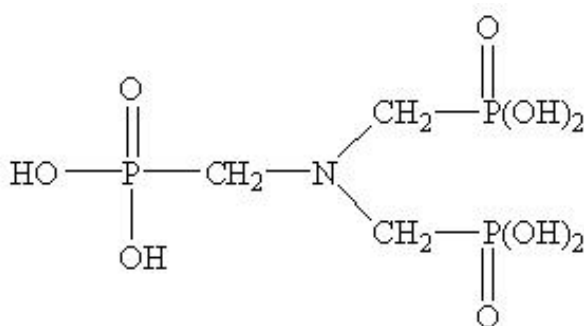


## Amino Trimethylene Phosphonic Acid (ATMP)



<b>CAS No.</b>	6419-19-8	<b>EINECS No.</b>	229-146-5
<b>Molecular Formula</b>	$N(CH_2PO_3H_2)_3$	<b>Molecular Weight</b>	299.05

### Structural Formula



### Product Features

ATMP is an organophosphonate exhibiting excellent sequestration of metal ions and threshold inhibition of metal salt precipitation. ATMP is a good complexing agent and a universally applicable inhibitor for various scale. ATMP has excellent chelation, low threshold inhibition and lattice distortion.

### Technical Specification

Items	Index	
	Standard	Solid
Appearance	Clear, Colorless to pale yellow aqueous solution	White crystal powder
Active content, %	50.0min	95.0min
Chloride (as Cl <sup>-</sup> ), %	1.0 max	1.0 max
pH (1% water solution)	2.0 max	2.0 max
Fe, mg/L	20.0max	20.0max
Density (20℃), g/cm <sup>3</sup>	1.30 min	-

## Applications & Usage

ATMP is widely used in applications including boiler water treatment, cooling water treatment, industrial and institutional cleaning, oilfield water treatment and general-purpose metal ion control.

ATMP 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. The amount of 1-20mg/L is preferred; in an amount of 20-60mg/L when used as corrosion inhibitor.



## Scale & Corrosion Inhibition Performance

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

## Package & Storage

ATMP Liquid			ATMP Solid		
25L Drum	200L Drum	1000L IBC	ISO Tank	25kg Bag	Bulk Bag
					
Storage for 10 months in shady room and dry place.					

## Hazard & Safety Precaution

Hazard Information	Safety Precaution
 Corrosive, Class 8, UN 3265	
Once contacted with eye and skin, flush with plenty of clean water.	

## Alternative Name / Synonyms

- ATMPA;
- AMP;
- Amino Trimethylene Phosphonic Acid;

- Amino Tri(Methylene Phosphonic Acid);
- Tris(Methylene Phosphonic Acid) Amine;
- Nitritotrimethylphosphonic Acid(NTP);
- Nitritotrimethylphosphonic Acid(NTP);
- Nitritotrimethylenetris(Phosphonic Acid);
- Нитритотриметилфосфоновая кислота(НТФ -кислота)