

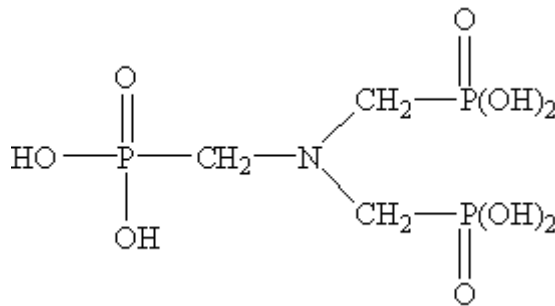
# Amino Trimethylene Phosphonic Acid (ATMP)

CAS No. 6419-19-8

Molecular Formula: **N(CH<sub>2</sub>PO<sub>3</sub>H<sub>2</sub>)<sub>3</sub>**

Molecular weight: 299.05

Structural Formula:



## Properties:

**ATMP** has excellent chelation, low threshold inhibition and lattice distortion ability. It can prevent scale formation, calcium carbonate in particular, in water system. **ATMP** has good chemical stability and is hard to be hydrolyzed in water system. At high concentration, it has good corrosion inhibition.

**ATMP** is used in industrial circulating cool water system and oilfield water pipeline in fields of thermal power plant and oil refinery plant. **ATMP** can decrease scale formation and inhibit corrosion of metal equipment and pipeline. **ATMP** can be used as chelating agent in woven and dyeing industries and as metal surface treatment agent.

The solid state of **ATMP** is crystal powder, soluble in water, easily deliquescence, suitable for usage in winter and freezing districts. Because of its high purity, it can be used in woven & dyeing industries and as metal surface treatment agent.

## 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°C), g/cm <sup>3</sup>	1.30 min	-

## Usage:

[ATMP](#) is usually used together with organophosphoric acid, polycarboxylic acid and salt to built all organic alkaline water treatment agent. [ATMP](#) can be used in many different circulating cool water system. The dosage of 1-20mg/L is recommended. As corrosion inhibitor, the dosage of 20-60mg/L is preferred.

## Package and Storage:

[ATMP liquid](#):200L plastic drum,IBC(1000L),customers' requirement.

ATMP solid: 25kg/bag,customers' requirement.

Storage for ten months in shady room and dry place.

## Safety Protection:

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

## Synonyms:

[ATMP;ATMPA;AMP](#)

[Amino Trimethylene Phosphonic Acid](#);

[Amino Tri\(Methylene Phosphonic Acid\);](#)

[Tris\(Methylene Phosphonic Acid\) Amine;](#)

[Nitrilotrimethylphosphonic Acid\(NTP\);](#)

[Nitrilotrimethylenetris\(Phosphonic Acid\);](#)

Нитрилотриметилфосфоновая кислота(НТФ -кислота)

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