

Amino Trimethylene Phosphonic Acid (ATMP)

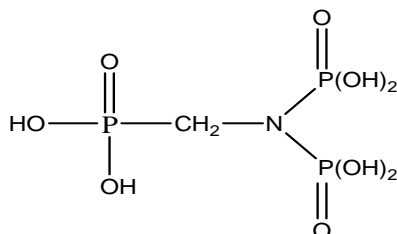
CAS No. 6419-19-8

Dequest: 2000

Molecular Formula: $N(CH_2PO_3H_2)_3$

Molecular Weight: 299.05

Structural Formula:



Properties and usage:

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 deliquesce, 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:

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| Appearance | Colorless or pale yellow transparent liquid | White crystal powder |
| Active acid % | 48.0-52.0 | 95min |
| Chloride (as Cl)% | 2.0(or1.0)min | 1.0min |
| pH value (1% solution) | 2.0max | 2.0max |
| Fe (as Fe ³⁺) (ppm) | 20.0 | 20.0 |
| Density (20°C) g/cm ³ | 1.33min | — |
| Colour APHA (Hazen) | 40max | — |

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: Normally In 250kg net Plastic Drum, IBC drum can also be used as required

ATMP solid: 25kg inner liner polyethylene (PE) bag, outer plastic woven bag, 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.