



AMINO TRIMETHYLENE PHOSPHONIC ACID (ATMP)

CAS Number: 6419-19-8
Chemical Formula: $\text{N}(\text{CH}_2\text{PO}_3\text{H}_2)_3$

APPLICATIONS

ATMP is a versatile phosphonic acid with excellent chelation, low threshold inhibition, and lattice distortion ability. It is widely used for:

- Industrial circulating cooling water systems
- Oilfield water injection and pipelines
- Scale prevention (especially calcium carbonate)
- Corrosion inhibition for metal equipment and pipelines
- Textile and dyeing industry as a chelating agent
- Metal surface treatment formulations
- As a component of all-organic alkaline water treatment agents

USAGE

- General scale inhibition: 1–20 mg/L
- Corrosion inhibition: 20–60 mg/L
- Often used in combination with organophosphoric acids, polycarboxylic acids, and salts to formulate blended water treatment products.

TECHNICAL SPECIFICATIONS

Parameter	Specification
Appearance	Clear, colorless to pale yellow liquid
Active Acid (%)	≥ 50.0
Chloride (as Cl-) (%)	≤ 1.0
pH (1% solution)	≤ 2.0
Iron (Fe, mg/L)	≤ 20
Density (20 °C, g/cm ³)	≥ 1.30
Colour (APHA/Hazen)	≤ 40



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This document is subject to revision without notice as new data becomes available.

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PACKAGING

- 200 L plastic drums
- 1,000 L IBCs
- Custom packaging available upon request

STORAGE & HANDLING

Store in a cool, dry, and well-ventilated area. Keep containers tightly sealed. Shelf life is at least 10 months under recommended storage conditions.

SAFETY

ATMP is acidic and may cause irritation upon contact. Use proper personal protective equipment (PPE) including gloves and goggles. Refer to the Safety Data Sheet (SDS) for detailed handling instructions.