



Amino Trimethylene Phosphonic Acid, Pentasodium Salt (ATMP•Na₅)

CAS No.: 2235-43-0

Chemical Formula: C₃H₇NO₉P₃Na₅

ATMP•Na₅ is the pentasodium salt of amino trimethylene phosphonic acid. It is a colorless to light yellow transparent liquid, widely recognized as a cost-effective scale inhibitor for water treatment systems. The product provides strong calcium carbonate inhibition, effective chelation, and good compatibility with zinc salts and phosphates. Its alkaline nature makes it suitable for a wide range of water chemistries.

APPLICATIONS

- Scale and corrosion inhibitor in circulating cooling water systems in power plants, oil refineries, and industrial process water
- Treatment of oilfield refill water systems
- Component of formulations with other organophosphonates or polycarboxylates for broad-spectrum water treatment
- Cost-efficient general-purpose inhibitor with good corrosion inhibition to zinc salt and phosphate systems

TYPICAL SPECIFICATIONS

Parameter	Specification
Appearance	Colorless to light yellow transparent liquid
Active content (ATMP) %	27.8 – 30.7
Active content (ATMP•Na ₅) %	38.0 – 42.0
Total phosphoric acid (PO ₄ ³⁻) %	26.6 – 28.6
Chloride (as Cl ⁻) %	≤ 1.0
pH (1% solution)	10.0 – 11.0
Iron (mg/L)	≤ 10
Density (20°C, g/cm ³)	1.38 – 1.48



**LIMITED WARRANTY INFORMATION.
PLEASE READ CAREFULLY.**

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

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PACKAGING

Supplied in 200 L plastic drums, 1000 L IBCs, or as per customer requirements.

STORAGE & HANDLING

- Store in a cool, dry, well-ventilated area away from direct sunlight
- Shelf life: up to 10 months under recommended storage conditions
- Keep containers tightly closed when not in use

SAFETY

- Avoid contact with skin and eyes
- Use with adequate ventilation and wear appropriate PPE
- Refer to the Safety Data Sheet (SDS) for detailed safety and handling information