

ATMP 50% Solution

Aqueous aminotrimethylenephosphonic acid for metal-ion sequestration and scale-control formulations.

CAS 6419-19-8	EC 229-146-5	Transport Class 8 · UN 3265 · PG II
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Product Information

ATMP is an acidic phosphonate concentrate. Its phosphonic acid groups bind metal ions, while low-dose formulations can interfere with scale formation. The 48–52% active-content range is expressed as ATMP acid. Density and pH have defined temperature and dilution conditions; they should not be compared with neat-substance values. Formulators should assess the complete water chemistry, operating pH, oxidant exposure and compatibility with other treatment chemicals. The product is corrosive and needs compatible transfer equipment.

Specifications

Parameter	Specification
Appearance	Clear, colorless to pale yellow liquid
ATMP active content	48–52 %
Phosphorous acid	≤5.0 %
Phosphoric acid	≤1.0 %
pH, 1% solution	1.5–2.5
Density, 20°C	1.28–1.38 g/cm ³
Calcium sequestration, as CaCO ₃	≥300 mg/g

Typical Properties

Property	Typical Value
Molecular formula (component)	C ₃ H ₁₂ NO ₉ P ₃
Molecular weight (component)	299.07 g/mol

Applications

Cooling-water treatment: Use as a component of scale-control and metal-ion sequestration programs.

Boiler-water formulations: Evaluate in appropriate boiler-water treatment formulations with defined pressure and water chemistry.

Industrial cleaning: Use as a chelating component where metal ions interfere with cleaning performance.

Packaging / Storage

Item	Information
Packaging	260 kg plastic drums.
Storage	Keep closed in a cool, ventilated area with corrosion-resistant containment, away from incompatible bases and oxidizers.

Company Contact

Supplier	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
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