



Amino Trimethylene Phosphonic Acid

What is Amino Trimethylene Phosphonic Acid?

Amino Trimethylene Phosphonic Acid (ATMP) is an organic polybasic phosphonic acid compound containing nitrogen. It is easily soluble in water, difficult to dissolve in ethanol. Amino Trimethylene Phosphonic Acid has corrosion inhibition, scale inhibition, and chelating properties, which is used in water treatment, oil, metal surfaces, detergent.

Product name: Amino Trimethylene Phosphonic Acid

Other names: ATMP

CAS NO.: 6419-19-8

Chemical formula: $C_3H_{12}NO_9P_3$

Molecular weight: 299.05

Melting point: 195.00°C

Type: ATMP 95% Solid, ATMP 50% liquid

Chemical Properties

Test Item	Specification
Appearance	White crystal solid
ATMP Purity	$\geq 88.000\%$
Acid Assay	$\geq 95.000\%$
Chloride (Cl-)	$\leq 1.00\%$
Fe	$\leq 20.000\text{ppm}$
Ph (1% solution)	≤ 2.00
Phosphoric acid (PO_4^{3-})	$\leq 0.800\%$



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Packaging

ATMP Liquid: 250kg/drum, 1250kg/IBC drum, 25kg/drum

Solid: 25kg/bag, 20MT/20FCL with pallets or 1000kg/bag, 20MT/20FCL

Uses

Amino Trimethylene Phosphonic Acid (ATMP) is a water treatment agent, which is used as an anti scaling dispersant in industrial circulating cooling water system, water pipelines and boilers.

ATMP has good scale inhibition effects on calcium carbonate.

Amino Trimethylene Phosphonic Acid (ATMP) has uses in oilfield reinjection water systems with high hardness, high mineralization, and poor water quality.

Amino Trimethylene Phosphonic Acid can chelate calcium and magnesium ions in hard water. It is used to replace STPP as a phosphorus free formula. ATMP is usually found in laundry detergents, laundry detergents, laundry beads, kitchen and bathroom cleaning agents.

Solutions

A. One chemical factory encountered serious corrosion and scale in producing, which made producing cost rise and some pipelines needed frequent cleaning. To solve this problem, they used Amino Trimethylene Phosphonic Acid (ATMP) as scale inhibitor and corrosion inhibitor, then the problem was solved.

B. One power generation enterprise needed reduce power generation costs through energy conservation and consumption reduction. They used ATMP, HDEP as materials to make one circulating water erosion and scale inhibitor, which solved circulating water cooling treatment and reduced costs.