

VerdiPhos A50

ATMP 50% | PRODUCT DATA SHEET

Chemical name	Aminotris(methylene phosphonic acid)
Common name	Aminotrimethylene phosphonic acid
CAS No.	6419-19-8
Molecular formula	$C_3H_{12}NO_9P_3$
Molecular weight	299.05 g/mol
Physical form	Clear, colorless to pale yellow transparent liquid

PRODUCT DESCRIPTION

VerdiPhos A50 is an aqueous 50% grade of ATMP, a highly effective organophosphonate for metal-ion complexing, threshold scale inhibition and corrosion-control formulations.

TYPICAL TECHNICAL SPECIFICATIONS

Parameter	Unit	Specification
Active acid (ATMP)	%	48.0–52.0
Phosphorous acid (as PO_3^{3-})	%	3.5 max
Phosphoric acid (as PO_4^{3-})	%	1.0 max
Chloride (as Cl^-)	%	1.0 max
pH (1% aqueous solution)	—	2.0 max
Density at 20°C	g/cm ³	1.30 min
Iron (Fe)	ppm	20 max
Colour (APHA)	Hazen	40 max

Key applications	Cooling-water and circulating-water treatment • Boiler-water and industrial process-water programs • Scale and corrosion inhibition in formulated water-treatment products • Metal-surface treatment and non-cyanide electroplating • Detergent and industrial-cleaner formulations • Textile and dyeing applications, including peroxide stabilization
Storage & handling	Store tightly closed in a cool, dry, well-ventilated area. Avoid contact with eyes and skin. Use corrosion-resistant equipment and appropriate PPE during handling.

Specification note: Values are presented as typical technical specifications for the stated grade and should be confirmed against the current Certificate of Analysis (COA) for the supplied batch. Product performance depends on formulation, water chemistry and process conditions.