ETHYLENE DIAMINE TETRA (METHYLENE PHOSPHONIC ACID) (EDTMPA)

CAS Number: 1429-50-1
Chemical Formula: $C_6H_{20}N_2O_{12}P_4$

APPLICATIONS

EDTMPA is a high-purity phosphonic acid compound with strong chelation properties. It is widely used in:

- Water treatment as a chelating agent for metal ions
- Scale and corrosion inhibition in industrial water systems
- Electronics industry (semiconductor cleaning and detergent)
- Medical field as a carrier agent for radioelements
- Alternative to EDTA for chelating applications requiring stronger complexing ability

TECHNICAL SPECIFICATIONS

Parameter	Specification
Appearance	White crystalline powder
Active Acid (%)	≥ 96.0
Total Phosphonic Acid (%)	≥ 82.0
Chloride (as Cl^-) (%)	≤ 0.1
Moisture (%)	≤ 2.0
Iron (Fe, mg/L)	≤ 5
pH (1% solution)	≤ 2.0

(99% chromatographic purity and higher grades available upon request)

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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

- 25 kg bags
- Custom packaging available on request

STORAGE & HANDLING

Store in a cool, dry, and well-ventilated location. Keep containers sealed to prevent moisture absorption. Shelf life is at least 12 months under proper conditions.

SAFETY

EDTMPA may cause irritation upon contact. Use suitable personal protective equipment (PPE) including gloves and goggles. Refer to the Safety Data Sheet (SDS) before handling.