EDTMP•Na5

Pentasodium Salt of Ethylene Diamine Tetra (Methylene Phosphonic Acid)

CAS # 7651-99-2

EDTMP•Na5 is a high-purity aqueous solution of the pentasodium salt of ethylenediamine tetra(methylene phosphonic acid). It is a nitrogen-containing organophosphonic acid derivative used extensively as a chelating agent and scale inhibitor. The product exhibits excellent thermal stability and corrosion inhibition, particularly in high-temperature industrial water treatment applications. It is highly effective against calcium and barium sulfate scaling and forms stable complexes with multiple metal ions, enhancing system cleanliness and operational efficiency.

KEY FEATURES

- Strong chelating performance with multivalent metal ions
- Effective scale inhibition for calcium and barium sulfates
- Excellent thermal and chemical stability up to 200°C
- Nitrogenous phosphonate structure provides cathodic corrosion inhibition
- Fully water-soluble and environmentally friendly profile

USAGE GUIDELINES

EDTMP•Na5 is recommended for use in industrial water treatment systems, boiler feedwater, cooling towers, and other applications where scale and corrosion control is essential. It may also be used in dyeing, electroplating, and detergent formulations.

Typical dosage rates should be determined through pilot testing based on system composition, temperature, and operating conditions.

SPECIFICATIONS

Items	Index
Appearance	Amber transparent liquid
Active content (as EDTMPA) %	24.0–26.0
Active content (as EDTMP•Na_5) %	30.0–32.6
Chloride (Cl^-) %	2.0 max
Density (20°C) g/cm^3	1.25 min
Fe, mg/L	20.0 max
pH (as it)	6.0–8.0

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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

Available in 200L plastic drums, 1000L IBCs, or customized packaging upon request.

STORAGE

- Store in tightly sealed containers in a cool, dry, well-ventilated area
- Protect from direct sunlight and freezing conditions
- Shelf Life: 10 months from date of manufacture under recommended storage conditions

SAFETY

Refer to the current Safety Data Sheet (SDS) before handling. Ensure appropriate PPE and ventilation are used when handling the product.

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