



**NORTH METAL & CHEMICAL COMPANY**  
*World Class Molybdenum & Tungsten Compounds*  
 Since 1921

PHOSPHONATES

TDS\_DTPMPA-41418

# Technical Bulletin

## About us.....

- Founded in York, PA in 1921, NM&C remains a financially stable, family owned producer of *World Class Molybdenum & Tungsten* compounds serving the Metal Finishing, Agriculture, Water Treatment, Pigment, and Antifreeze markets worldwide.
- NM&C maintains over \$2 million inventory of finished goods and ore concentrates to guarantee our customers a stable and secure source of molybdate in the event of a crisis or shortage.
- All orders for one drum to truckload quantities are shipped the next business day or as requested.
- NM&C molybdates are American Made and backed by full 'Cradle-to-Grave' product liability.
- NM&C is unrivaled in customer service and technical support.
- Strict Quality Assurance programs and ISO 9002 practices assure products of the highest quality and consistency.



## DTPMPA (Diethylenetriamine Penta Methylene phosphonic Acid)

**Description:** DTPMPA works well as a scale inhibitor and dispersing agent for use in industrial water treatment programs; when used at high alkali and temperatures (above 210°C) it is more effective than other phosphonates.

### Technical Specifications: (CAS No. 15827-60-8)

ELEMENT	SPECIFICATION
Appearance	Brown Transparent Liquid
Molecular Weight	573
Active Content; % wt.	48-52%
Specific Gravity	1.35-1.45
pH Value	2.0 max
Freezing Point	-25°C
Chloride, as Cl <sup>-</sup> (%)	20 max (< 10 average)
Iron, Fe Content	< 20 ppm / 35 mg/L max.

**APPLICATION:** At high alkali and temperatures, DTPMPA performs better than other phosphonates. DTPMPA is a very good inhibitor of the precipitation of barium sulfate.

**PACKAGING:** Available in 551.16 lb. (250 Kgs) drums.

**SAFETY:** Refer to MSDS for additional precautions.



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DTPMPA - Technical Data Sheet