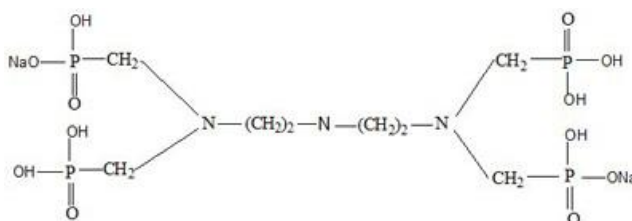


## Sodium Salt of Diethylene Triamine Penta (Methylene Phosphonic Acid) (DTPMP.Na<sub>2</sub>)



<b>CAS No.</b>	22042-96-2	<b>EINECS No.</b>	244-751-4
<b>Molecular Formula</b>	C <sub>9</sub> H <sub>26</sub> O <sub>15</sub> N <sub>3</sub> P <sub>5</sub> Na <sub>2</sub>	<b>Molecular Weight</b>	358

### Structural Formula



### Product Features

DTPMP.Na<sub>2</sub> is partly neutralized DTPMPA. DTPMP.Na<sub>2</sub> 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) DTPMP.Na<sub>2</sub> is more effective than other phosphonates. DTPMP.Na<sub>2</sub> is a very good inhibitor of the precipitation of barium sulfate.

### Technical Specification

Items	Index
Appearance	Umber transparent liquid
Active content (as DTPMPA), %	45.0-49.0
Chloride (as Cl <sup>-</sup> ), %	5.0 max
Fe, mg/L	20.0 max
pH (1% water solution)	2.0-3.0
Density (20°C), g/cm <sup>3</sup>	1.35 min

### Applications & Usage

DTPMP • Na<sub>2</sub> can be used as a scale inhibitor, efficient chelating agent, and excellent BaSO<sub>4</sub> scale inhibitor. DTPMP • Na<sub>2</sub> is widely used in cooling water treatment, stabilizer for peroxide

bleaching, washing aids, municipal and industrial clean water, and geothermal heating. Water treatment, oil field scale inhibition.




## Scale & Corrosion Inhibition Performance

CaCO <sub>3</sub> inhibition	CaSO <sub>4</sub> inhibition	Ca <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> inhibition	CaC <sub>2</sub> O <sub>4</sub> inhibition	BaSO <sub>4</sub> inhibition
Very Good	Excellent	Very Good	Very Good	Very Good
Calcium tolerance	Iron control	Sequestration	Steel corrosion inhibition	
Good	Yes	Excellent	Very Good	

## Package & Storage

DTPMP.Na <sub>2</sub> Liquid			
25L Drum	200L Drum	1000L IBC	ISO Tank
			
Storage for ten months in shady room and dry place.			

## Hazard & Safety Precaution

Hazard Information	Safety Precaution
Not regulated	  
Once contacted with eye and skin, flush with plenty of clean water	

## Alternative Name / Synonyms

- Hepta Sodium Salt of Diethylene Triamine Penta (Methylene Phosphonic Acid) (DTPMP•Na<sub>7</sub>)
- Sodium salt of Diethylene Triamine Penta (Methylene Phosphonic Acid) (DTPMP•Na<sub>x</sub>)
- Diethylene Triamine Penta (Methylene Phosphonic Acid) (DTPMPA)