

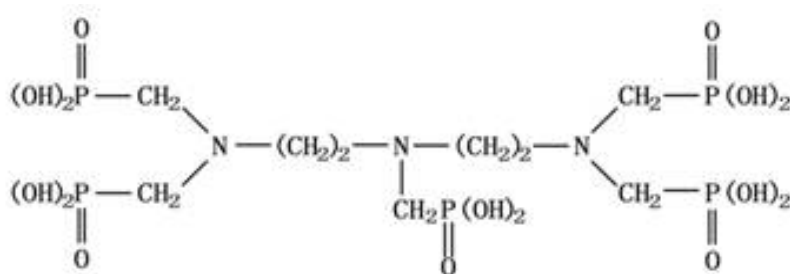
Diethylene Triamine Penta (Methylene Phosphonic Acid) (DTPMPA)

CAS No. 15827-60-8

Molecular Formula: $C_9H_{28}O_{15}N_3P_5$

Molecular weight: 573.2

Structural Formula:



Properties:

DTPMPA is innocuous, easy to be dissolved in acid solution. **DTPMPA** has excellent scale and corrosion inhibition and good thermal tolerance ability. **DTPMPA** can inhibit the scale formation of carbonate, sulfate and phosphate. On situation of alkali environment and high temperature (above 210°C) **DTPMPA** has better scale and corrosion inhibition effect than other organophosphines.

Specification:

Items	Index
Appearance	Brown transparent liquid
Active acid, %	48.0-52.0
Chloride (as Cl ⁻), %	12-17
Density (20°C), g/cm ³	1.35-1.45
pH (1% water solution)	2.0 max
Fe, mg/L	35 max

Usage:

[DTPMPA](#) can be used as scale and corrosion inhibitor in circulating cool water system and boiler water, and especially in alkali circulating cool water system without additional pH regulation, It can also be used in oilfield refill water, cool water and boiler water with high concentration of barium carbonate. When used alone, little scale sediment is found even none of dispersant is used.

[DTPMPA](#) can also be used as peroxide stabilizer, chelating agent in woven & dyeing industry, pigment dispersant, microelement's carrying agent in fertilizer and concrete modifier. In addition, [DTPMPA](#) is used in papermaking, electroplating, acid cleaning and cosmetics.

Package and Storage:

200L plastic drum,IBC(1000L),customers' requirement. Storage for ten months in shady room and dry place.

Safety Protection:

Acidity, Avoid contact with eye and skin, once contacted, flush with water.

Synonyms:

[DTPMP](#); [DTPMPA](#); [DETPMP](#); [Diethylene Triamine Penta \(Methylene Phosphonic Acid\)](#);
[DIETHYLENE TRIAMINE PENTA](#); [DETPMP\(A\)](#); [Diethylenetriaminepenta -Methylenephosphonic Acid\(DETPMP\)](#)

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