

Technical Data Sheet

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Item Name:

DTPMPA

PRODUCT INFORMATION

Chinese Name:	二乙烯三胺五甲叉膦酸
Commodity Name:	DTPMPA
Chemical Name:	Diethylene Triamine Penta Methylene Phosphonic Acid
Other Name:	DTPMP, Dequest 2060
CAS No.:	15827-60-8
Molecular Weight:	573.20
Molecular Formula:	$C_9H_{28}O_{15}N_3P_5$

PRODUCT DESCRIPTION

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.

TECHNICAL SPECIFICATION

Index	Standard
Appearance	Brown transparent liquid
Active acid by wt %	50.0 min
Chloride (as Cl ⁻)%	12.0 - 17.0
Density (20°C) g/cm ³	1.35 - 1.45
pH (1% water solution)	2.0 max
Fe by mg/L	35.0 max

MAIN APPLICATION

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.

PACKING, LOADING AND SHELF LIFE

Packing: 200L plastic drum, IBC(1000L)

Loading: 24mt/20'fcl

Shelf Life: 24 months when stored in cool, dry and ventilated warehouse, away from incompatible materials.

DISCLAIMER

The information provided in this data sheets is for informational purposes only is considered reliable, but Rawchem doesn't guarantee how any other products associated with this information will behave in combination with variables to other matters. It's recommended to make adaptations to local working conditions and to the raw material to be used.