



DIETHYLENE TRIAMINE PENTA (METHYLENE PHOSPHONIC ACID) [DTPMPA]

SYNONYMS:

(Phosphonomethyl)imino]bis[2,1-ethanediylnitrilobis(methylene)]]tetrakis-phosphonic Acid

CAS No: 15827-60-8

MOLECULAR FORMULA: C₉H₂₈O₁₅N₃P₅

OTHER TRADE NAME: Belclene 630

PROPERTIES:

DTPMPA is innocuous, easy to be dissolved in acid solution and 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 21 degree). DTPMPA has better scale and corrosion inhibition effect than other organophosphines.

SPECIFICATION:

Appearance	Brown transparent liquid
Active acid	48.0-52.0 %
Phosphorous acid (as PO ₃)	3.0 % max
Chloride (as Cl ⁻)	12-17 %
Density (20° C)	1.35-1.45 g/cm ³
pH (1% Solution)	2.0
Fe of DTPMPA	35 ppm 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. can also be used as peroxide stabilizer, chelating agent in woven and dyeing industry, pigment dispersant, microelement's carrying agent in fertilizer and concrete modifier. In addition, it is used in papermaking, electroplating, acid cleaning and cosmetics.

PACKING:

250Kgs Net Drum.