

Britequest DTPMP.Na

Sodium salts of Diethylene Triamine Penta(Methylene Phosphonic Acid)

CAS nr: 22042-96-2 (Na₂, Na_x); 68155-78-2 (Na₇)
Einecs nr: 244-751-4

Product information

Synonyms:

Phosphonic acid, [[bis[2-[bis(phosphonomethyl)amino]ethyl]amino]methyl]-, sodium salt;
C₉H_(28-x)O₁₅N₃P₅ Na_{2,7,x}

The 'x' in Britequest DTPMP.Na_x indicates that the sodium number in this salt is not fixed. We can fix it at 2, or 7, or leave it variable; x.

Britequest DTPMP.Na_x are chelating agents and scaling inhibitors, especially avoiding bariumsulphate BaSO₄ formation. They also act as anti scaling agents, meaning DTPMP.Na_x break down existing scales. They are used in detergents, industrial and municipality water treatment, as additives to cooling and heating water and water used in oil fields.

Britequest DTPMP.Na_x has the positive side effects of stabilizing other reactive additives, such as peroxides in detergents.

Product specifications

Test Item	DTPMP.Na ₂ DTPMP.Na _x	DTPMP.Na ₇ -32%	DTPMP.Na ₇ -25%
Appearance	Umber transparent liquid	Umber transparent liquid	Umber transparent liquid
Active content (DTPMPA), %	45.0 - 49.0	31.5 - 33.5	24.0 - 26.0
Total content (DTPMPA.Na _x), %	48.45 min.	40.0 - 42.5	30.5 - 33.0
Total phosphoric acid (PO ₄ ³⁻), %	38.0 - 40.0	25.9 - 27.9	19.7 - 21.7
Total phosphorous acid (PO ₄ ³⁻), %	5.0 max	-	-
Chloride (Cl ⁻), %	5.0 max.	5.0 max	5.0 max.
Iron (Fe), ppm	20.0 max	20 max	20.0 max
pH (as is)	2.0 - 3.0	6.0 - 8.0	6.0 - 8.0
pH (1% solution in water)	2.0 - 3.0	7.0 - 9.0	7.0 - 9.0

Density (20°C), g/cm ³	1.37 - 1.47	1.34 - 1.44	1.24 - 1.34
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[Change specifications](#)

Commercial

Packaging:

25liter jerry cans, 250kg (200liter) drums, 1250kg (1000liter) IBC, 24mt ISO tank container (bulk)

Lead time up to 5mt in Europe:

1 week(directly from stock)

Lead time from 5mt:

6 weeks

Britequest DTPMP.Nax is considered harmful; transport and storage should be done under IMO8 conditions. UN3265, packaging group III

Technical

H290 = May be corrosive to metals.

H315 = Causes skin irritation.

H318 = Causes serious eye damage.

R 38 = Irritating to skin.

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