

## Penta sodium salt of Amino Trimethylene Phosphonic Acid



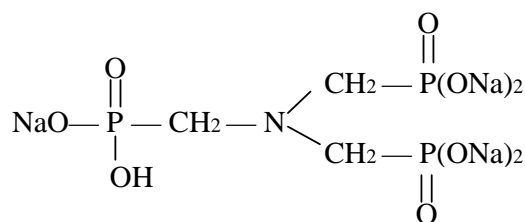
CAS No. 20592-85-2 (x-Na), 2235-43-0 (5-Na)

Dequest 2006

Molecular Formula:  $\text{C}_3\text{H}_7\text{NO}_9\text{P}_3\text{Na}_5$

Molecular Weight: 409

### Structural Formula



### Properties and usage:

ATMP·Na<sub>5</sub> is the salt of ATMP, it can inhibit calcium carbonate particularly in water treatment system. ATMP·Na<sub>5</sub> can be used in circulating cool system in power plant, oil refinery plant and oilfield refill water system. ATMP·Na<sub>5</sub> is a general low cost scale inhibitor, it has good corrosion inhibition to zinc salt and phosphate, its chelating ability is good as well.

### Specification:

items	index
Appearance	Colorless to light yellow transparent liquid
Active content (ATMP) %	27.8-30.7
Active content (ATMP·Na <sub>5</sub> ) %	38.0-42.0
Total phosphoric acid(PO <sub>4</sub> <sup>3-</sup> ) %	26.6-28.6
Chloride (Cl-) %	1.0max
PH (1% water solution)	10.0-11.0
Fe (Fe <sup>3+</sup> ) ppm	20max
Density (20°C) g/cm <sup>3</sup>	1.38-1.48

### Usage:

ATMP·Na<sub>5</sub> is used together with other organophosphonic acid, polycarboxylic acid or salt to form organic alkaline agents. ATMP·Na<sub>5</sub> can be used in circulating cool water system for all water quality.

### Package and Storage:

Normally In 250kg net Plastic Drum, IBC drum can also be used as required. Storage for ten

months in room shady and dry place.