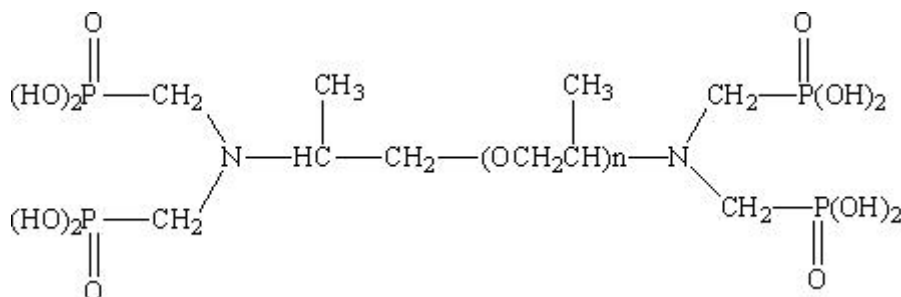


## Polyamino Polyether Methylene Phosphonic Acid (PAPEMP)



<b>CAS No.</b>	130668-24-5		
<b>Molecular Formula</b>	C <sub>4</sub> H <sub>13</sub> NO <sub>7</sub> P <sub>2</sub>	<b>Molecular Weight</b>	about 600

### Structural Formula



### Product Features



PAPEMP is a new variety of water treatment agent. PAPEMP is a macromolecular organic phosphonic acid and can chelate with Cu, Ca, Mg and form as soluble chelation. PAPEMP has high chelation and dispersion capacity, high value of calcium tolerance, and good scale inhibition effects. PAPEMP can be used with AA/AMPS and other polymers, as scale and corrosion inhibitor in circulating cool water system, family detergent, thermal power plant and oilfield refill water system in situations of high hardness, high alkali and high pH value. PAPEMP has superb scale inhibition ability to calcium carbonate, calcium sulfate and calcium phosphate. PAPEMP can efficiently inhibit the formation of silica scale, stabilize metal ions such as Zn, Mn and Fe.

PAPEMP can be used as scale inhibitor for reverse osmosis system and multistep flash vaporization system in which high salt concentration, high turbidity and high temperature are usually encountered (such as high temperature and high turbidity in coal vaporization system), accessory agent for woven & dyeing (for example, yellow turnback inhibition agent), as alternatives of EDTA, DTPA and NTA. PAPEMP can work with HPAA and ATMP together.



## Technical Specification

Parameter	Standard
Appearance	Amber transparent liquid
Active content, %	40.0 min
Phosphoric acid (as $\text{PO}_4^{3-}$ ), %	1.0 max
Density (20°C), g/cm <sup>3</sup>	1.15-1.25
pH (1% water solution)	2.0 max

## Package & Storage

PAPEMP Liquid			
25L Drum	200L Drum	1000L IBC	ISO Tank
			
Storage for 10 months in shady room and dry place.			

## Hazard & Safety Precaution

Hazard Information	Safety Precaution
 Corrosive, Class 8, UN 3265	
Once contacted with eye and skin, flush with plenty of clean water.	

## Alternative Name / Synonyms

- Polyamino Polyether Methylene Phosphonic Acid
- PAPE
- PBTC