

# Technical Data Sheet

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Item Name:

## BHMTMPMPA

### PRODUCT INFORMATION

|                    |                                                                                   |
|--------------------|-----------------------------------------------------------------------------------|
| Chinese Name:      | 二己烯三胺五亚甲基膦酸                                                                       |
| Commodity Name:    | BHMTMPMPA                                                                         |
| Chemical Name:     | Bis (Hexamethylene Triamine Penta (Methylene Phosphonic Acid))                    |
| Other Name:        | BHMTPHPN(Nax),<br>N,N-Bis[6-[bis(phosphonomethyl)amino]hexyl]phosphonomethanamine |
| CAS No.:           | 34690-00-1                                                                        |
| Molecular Weight:  | 685                                                                               |
| Molecular Formula: | $C_{17}H_{44}O_{15}N_3P_5$                                                        |

### PRODUCT DESCRIPTION

BHMTMPMPA is acidic, pay attention to labor protection during operation, should avoid contact with skin, eyes, etc., after contact with a large number of water rinse.

### TECHNICAL SPECIFICATION

| Index                               | Standard          |
|-------------------------------------|-------------------|
| Appearance                          | Dark amber liquid |
| Content by wt %                     | 45.0 - 50.0       |
| Phosphorous acid by wt %            | 3.5 max           |
| Chloride (Cl <sup>-</sup> ) by wt % | 6.0 max           |
| Fe by mg/L                          | 35.0 max          |
| pH value (1 % water solution)       | 2.0               |
| Density (20°C) by g/cm <sup>3</sup> | 1.2 min           |

### MAIN APPLICATION

BHMTMPMPA is efficient chelating agent and scale inhibitors with good inhibition effect to the carbonate scale and sulfate scale. BHMTMPMPA has excellent water solubility and thermal stability in relatively wide PH range and 120°C high temperature. BHMTMPMPA used as scale inhibitor and corrosion inhibitor to oil field water treatment, as well as good effect to anti-scaling inhibitor in industrial circulating cooling water and boiler water.

### PACKING AND SHELF LIFE

Packing: 200kg/plastic drum

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

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