



# Uniphos Chemicals

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## XF-337 (HMDTMPA.K6)

### NSF Certified

XF-337(HMDTMPA.K6) is an excellent CaSO<sub>4</sub> inhibitor and recommended for systems with high alkalinity and pH. Based on Hexamethylene Diamine Tetra (Methylene Phosphonic Acid), recommended applications for **XF-337** include boiler water treatment and reverse osmosis desalination.

|                         |  |
|-------------------------|--|
| <b>Abbreviation</b>     | HMDTMPA.K6   |
| <b>Molecular Form</b>   | C <sub>10</sub> H <sub>22</sub> N <sub>2</sub> O <sub>12</sub> P <sub>4</sub> K <sub>6</sub> |
| <b>Molecular Weight</b> | 721  |
| <b>Chemical Name</b>    | Hexamethylenediamine Tetra(Methylene Phosphonic Acid), Potassium Salt                        |
| <b>CAS Number</b>       | 38820-59-6 (x-K), 53473-28-2 (6-K)   |

### Typical Properties

|                                |                                   |
|--------------------------------|-----------------------------------|
| <b>Appearance</b>              | Water white to pale yellow liquid |
| <b>Active Acid (%)</b>         | 21.0-25.0                         |
| <b>Active Salt (%)</b>         | 31.0 – 36.0                       |
| <b>Chlorides (as Cl, %)</b>    | < 4.0                             |
| <b>Iron (as Fe, ppm)</b>       | 35 max.                           |
| <b>pH (1% solution) @ 25°C</b> | 6.0 – 7.0                         |
| <b>Specific Gravity @ 20°C</b> | 1.255 -1.30                       |
| <b>Phosphorous Acid (%)</b>    | 2.0 max.                          |

### Packaging

PE drum, IBC/Tote  
MSDS is available upon request.