



# Uniphos Chemicals

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## HEMPA Specifications

HEMPA is an excellent corrosion inhibitor, which is mainly used in oilfield, detergent/soap and metal treatment, especially useful in water systems with high level of dissolved iron and calcium. It exhibits good synergistic effects used together with other water treatment chemicals.

<b>Abbreviation</b>	HEMPA
<b>Chemical Name</b>	[[[2-Hydroxyethyl)imino] Bis(methylene)] Bisphosphonic Acid
<b>Molecular Structural</b>	C <sub>4</sub> H <sub>13</sub> NO <sub>7</sub> P <sub>2</sub>
<b>Molecular Weight</b>	249
<b>CAS Number</b>	5995-42-6
<b>EC Number</b>	227-833-4

## Typical Properties

<b>Appearance</b>	Colorless to light yellow transparent liquid
<b>Active content %</b>	60.0 min
<b>pH (1% water solution)</b>	2.0 max
<b>Chloride (as Cl-)%</b>	5.0 max
<b>Fe, mg/L</b>	20 max
<b>Density (20°C) g/cm<sup>3</sup></b>	1.30 min

## Packaging

IBC/Tote, 210L PE drum, or as per customer's requirement