



# Uniphos Chemicals

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## XF-321W (HPMA)

**XF-321W(HPMA)** is a water based Poly Maleic Acid. It's developed as a calcium carbonate inhibitor and a multifunctional formulation support agent in industrial water systems and other related applications. The active ingredient of **XF-321W** is a Homopolymer of Maleic Acid.

<b>Abbreviation</b>	PMA or HPMA
<b>Chemical Name</b>	Poly Maleic Acid, Homopolymer of Maleic Acid
<b>Molecular Formula &amp; Molecular Structure</b>	
<b>Commercial Form</b>	Aqueous Solution
<b>Molecular Weight</b>	300-800
<b>Recommended Uses</b>	<b>XF-321W</b> can be used in combination with phosphonates to improve performance and reduce phosphonate levels and thus provide a superior alternative to acrylate-based polymers.

### Typical Properties

<b>Appearance</b>	Clear yellow to amber liquid
<b>Solid content (%)</b>	≥50.0
<b>pH (1% solution) @ 25°C</b>	2.0-3.0
<b>Specific gravity (20°C, g/cm<sup>3</sup>)</b>	1.22-1.25

### Packaging

210L HDPE Drum; 1000L IBC(tote); Isotank