



Uniphos Chemicals

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XF-331H (HPA)

All-organic Corrosion Inhibitor

XF-331H(HPA) is a unique all-organic corrosion inhibitor specially developed to meet the demands of modern cooling and water systems. In combination with stabilizing and dispersing additives, it is a powerful tool in the formulation of high performance corrosion inhibitor programs. With XF-331, you could get improved corrosion performance and a far better “cost to use” profile. XF-331 can restore the profitability of water treatment programs hit by spiraling sodium molybdate costs.

In a word, XF-331 has below advantages:

- A well-known ferrous metal corrosion inhibitor
- Cost effective alternate to sodium molybdate
- Good biodegradability

Abbreviation	HPA or HPAA
Chemical Name	Hydroxyphosphonoacetic Acid
Molecular Formula	$C_2H_5O_6P$
Molecular Structure	$ \begin{array}{c} \text{OH} \\ \\ \text{HO}-\text{P}-\text{CH}-\text{COOH} \\ \quad \\ \text{O} \quad \text{OH} \end{array} $
Molecular Weight	156
CAS Number	23783-26-8

Typical Properties

Appearance	Dark brown liquid
Odor	Slight
Solids content, %	$\geq 50\%$
Specific gravity @ 20°C, g/cm³	1.39 – 1.45
pH, 1% solution	≤ 2.0
Orthophosphate, %	2.0 Max.

Packaging

PE drum or IBC/Tote