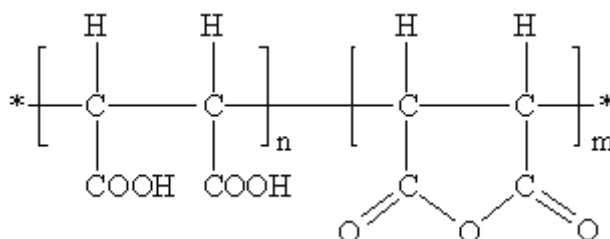


Hydrolyzed Polymaleic Anhydride (HPMA)

CAS No. 26099-09-2

Structural Formula:



Properties:

HPMA is a low molecular weight polymeride, with average molecular weight 400-800. No toxicity, soluble in water, high chemical and thermal stability, decomposed temperature above 330°C. **HPMA** has obvious threshold effect under high temperature (350°C) and high pH(8.3)level, suitable to be used in alkaline water system or built with agents. It has good scale inhibition against carbonate and phosphate scales under temperature 300°C with effective time as long as 100 hours. Due to its good scale inhibition and high temperature tolerance properties, **HPMA** is widely used in desalination plant of flash vaporization equipment, low pressure boiler, steam locomotive, crude oil evaporation, petroleum pipeline, and industrial circulating cool water systems. In addition, **HPMA** has good corrosion inhibition effect when used together with zinc salt. **HPMA** can also be used as additives for cement.

Specification:

Items	Index
Appearance	Pale yellow to amber transparent liquid
Solid content, %	48.0 min
Bromine value, mg/g	50.0 max
pH (1% water solution)	2.0-3.0

Density (20°C), g/cm ³	1.18 min
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Usage:

[HPMA](#) is usually used together with organic phosphonate at dosage of 1-15ppm for circulating cool water system, oilfield fill water, crude oil dewatering and low-pressure boilers. [HPMA](#) has good scale inhibition (98%) and scale stripping properties. When used together with zinc salts, it can effectively inhibit carbon steel corrosion.

Package and Storage:

200L plastic drum, IBC(1000L), customers' requirement. storage for one year in shady room and dry place.

Safety Protection:

Acidity, Avoid contact with eye and skin, once contacted, flush with water.

Synonyms:

[HPMA](#); [Hydrolyzed Polymaleic Anhydride](#); [poly\(maleicacid\)](#);

[Polymaleic Acid](#); MALEIC ACID POLYMER; Polymaleic Acid

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