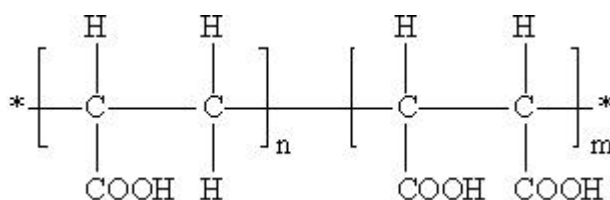


## Copolymer of Maleic and Acrylic Acid (MA/AA)



<b>CAS No.</b>	26677-99-6	<b>EINECS No.</b>	607-984-6
<b>Molecular Formula</b>	$(C_3H_4O_2)_n(C_4H_4O_4)_m$		

### Structural Formula



## Product Features

MA/AA is a low molecular weight polyelectrolyte, a copolymer of maleic anhydride and acrylic acid. It has good dispersant performance against carbonate and scale inhibition for phosphate. It has good thermal stability, can be used under high temperature (300 °C). MA/AA has good compatibility when used together with other agents. MA/AA is widely used in low-pressure boiler, centralized heating, centralized air-conditioner and circulating cool system. It can also be used as chelating dispersants in woven and dyeing fields.

MA/AA is an aqueous solution of a polymer based on maleic anhydride. It provides excellent scale control in industrial cooling water systems. In combination with phosphonates, it gives excellent control of calcium carbonate and calcium sulphate deposition, and can be applied to formulate very cost-effective zinc-based corrosion inhibitor formulations.

## Technical Specification

Parameter	Standard
Appearance	Umber transparent liquid
Solid content, %	48 min
Free monomer (as MA), %	5.0 max
Density (20 °C), g/cm <sup>3</sup>	1.20 min
pH(1% water solution)	2.0~3.0



## Applications & Usage

MA/AA is used in circulating cool water system, medium or lower pressure boiler and distillation system in which high temperature is usually encountered. MA/AA can be used alone or together with other organic phosphates. When used together, the dosage of 2-10mg/L is preferred. The dosage for use as woven & dyeing and accessory detergent should be determined by experiments.

## Package & Storage

25L Drum	200L Drum	1000L IBC	ISO Tank
			
Storage for 10 months in shady room and dry place.			

## Hazard & Safety Precaution

Hazard Information	Safety Precaution
 Corrosive, Class 8, UN 3265	
Once contacted with eye and skin, flush with plenty of clean water.	

## Alternative Name / Synonyms

- MA-AA;
- Copolymer of Maleic and Acrylic Acid;
- ACRYLIC ACID MALEIC ANHYDRIDE COPOLYMER
- Copolymer of maleic anhydride and acrylic acid