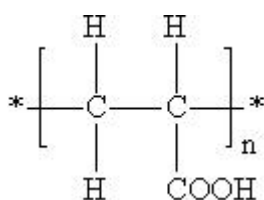


Polyacrylic Acid (PAA)



CAS No.	9003-01-4	EINECS No.	618-347-7
Molecular Formula	(C ₃ H ₄ O ₂) _n	Molecular Weight	3000~5000

Structural Formula



Product Features

PAA is innoxious and soluble in water, it can be used in situations of alkaline and high concentration without scale sediment. PAA can disperse the microcrystals or microsand of calcium carbonate, calcium phosphate and calcium sulfate. PAA is used as scale inhibitor and dispersant for circulating cool water system, papermaking, weave, dyeing, ceramic, painting, etc.

Technical Specification

Items	Index	
Appearance	Colorless to light yellow transparent liquid	Colorless to light yellow transparent liquid
Solid content, %	30.0 min	50.0 min
Free monomer (as AA), %	0.50 max	0.50 max
Density (20℃), g/cm ³	1.09 min	1.20 min
pH(1% water solution)	2.5-4.5	2.5-4.5

Applications & Usage

PAA can be used as scale inhibitor and dispersant in circulating cool water systems in power plants, iron & steel factories, chemical fertilizer plants, refineries and air conditioning systems.

Dosage should be in accordance with water quality and equipment materials. When used alone, 1-15mg/L is preferred.




Scale & Corrosion Inhibition Performance

CaCO ₃ inhibition	CaSO ₄ inhibition	BaSO ₄ inhibition	Silicate inhibition
Excellent	Very good	Good	Good
Calcium tolerance	Clay/Silt Dispersion	Thermal Stability	Iron Oxide Dispersion
Excellent	Very good	Excellent	Very Good

Package & Storage

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

Hazard & Safety Precaution

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

Alternative Name / Synonyms

- PAA;
- Polyacrylic Acid;
- Acrylicresin;
- acrylicacidresin;
- acrylicacid polymers
- acrysola;
- polyacrylateelastomers
- 2-Propenoic acid, homopolymer



ZAOZHUANG KAIRUI WATER TREATMENT CO., LTD.