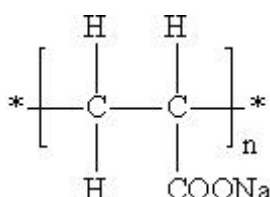


## Polyacrylic Acid Sodium Salt (PAAS)



|                          |  |                         |           |
|--------------------------|--|-------------------------|-----------|
| <b>CAS No.</b>           | 9003-04-7  | <b>EINECS No.</b>       | 618-349-8 |
| <b>Molecular Formula</b> | (C <sub>3</sub> H <sub>3</sub> O <sub>2</sub> Na) <sub>n</sub> | <b>Molecular Weight</b> | 3000~5000 |

### Structural Formula



### Product Features

PAAS is sodium salt of Polyacrylic acid(PAA), it is innocuous and soluble in water. PAAS can be used in situations of alkaline and high concentration without scale sediment. PAAS can disperse the microcrystals or microsand of calcium carbonate, calcium phosphate and calcium sulfate. PAAS is used as scale inhibition and dispersant for circulating cool water system, papermaking, weave, dyeing, ceramic, painting, etc.

### Technical Specification

| Items                            | Index                                       |          |          |
|----------------------------------|---|----------|----------|
| Appearance                       | Colorless to pale yellow transparent liquid |          |          |
| Solid content, %                 | 30 min                                      | 45 min   | 50 min   |
| Free monomer(as AA), %           | 0.5 max                                     | 0.8 max  | 1.0 max  |
| Density (20℃), g/cm <sup>3</sup> | 1.15 min                                    | 1.20 min | 1.25 min |
| pH(as it)                        | 6.0~8.0                                     | 6.0~8.0  | 6.0~8.0  |

### Applications & Usage

PAAS 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, 2-15mg/L is preferred. When used as dispersant, the dosage should be determined by experiment.




## Scale & Corrosion Inhibition Performance

|                              |                              |                              |                       |
|------------------------------|------------------------------|------------------------------|-----------------------|
| CaCO <sub>3</sub> inhibition | CaSO <sub>4</sub> inhibition | BaSO <sub>4</sub> 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 Information  | Safety Precaution  |
|---|--|
| Not regulated   |    |
| Once contacted with eye and skin, flush with plenty of clean water. |  |

## Alternative Name / Synonyms

- PAAS;
- POLY(ACRYLATE SODIUM);
- Polyacrylic Acid Sodium Salt;
- Poly(acrylic acid sodium salt);
- 2-Propenoic acid,
- homopolymer,
- sodium salt