

# 2-Acrylamido-2-methylpropanesulfonic Acid (AMPS)

Sulfonic-acid functional monomer for papermaking polymers and other controlled industrial polymerization.

|                       |                            |                                  |
|-----------------------|----------------------------|----------------------------------|
| CAS No.<br>15214-89-8 | EC / List No.<br>239-268-0 | Transport<br>Non-dangerous goods |
|-----------------------|----------------------------|----------------------------------|

## Product Information

Sulfonic-acid functional monomer for papermaking polymers and other controlled industrial polymerization.

## Specifications

| Parameter                        | Specification    |
|----------------------------------|------------------|
| Appearance                       | White powder     |
| Assay, HPLC                      | ≥99.0 %          |
| Colour, 25% w/w aqueous solution | ≤50 Hazen        |
| Non-volatile matter              | ≥99.5 %          |
| Acid value                       | 272–278 mg KOH/g |
| Iron                             | ≤5 mg/kg         |
| Melting point                    | ≥185 °C          |
| Water                            | ≤0.20 %          |

Grade-specific supply limits. The agreed specification and batch COA govern delivery.

## Typical Properties

| Property          | Typical Value |
|-------------------|---------------|
| Molecular formula | C7H13NO4S     |
| Molecular weight  | 207.25 g/mol  |

## Applications

Papermaking polymer development: Functional monomer for selected retention, dispersion and coating-rheology copolymers.

Water-treatment and oilfield polymers: Sulfonic-functional monomer for technically established water-soluble polymer systems.

Adhesive and coating copolymers: Building monomer for selected adhesive and coating chemistry.

## Packaging / Storage

| Item     | Information                                                                                                                                                                                                                                              |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Packing  | 25 kg lined bags                                                                                                                                                                                                                                         |
| Storage  | Keep tightly sealed, dry and cool with controlled ventilation. Protect this hygroscopic, heat-sensitive monomer from moisture and unnecessary heating; use inert-gas handling where specified. Segregate from strong oxidizers and incompatible alkalis. |
| Handling | Use local extraction and controlled powder transfer. Avoid dust inhalation and all eye exposure; wear suitable gloves, protective clothing, tightly fitting goggles and face protection. Control reaction heat during dissolution and polymerization.    |

## Company Contact

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|-------------------|-----------------------------------------------------------------------------------------------|
| Supplier          | Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)                                                   |
| Shanghai office   | Room 1001, Building A, Caohejing Center, No. 1520 Gumei Road, Xuhui District, Shanghai, China |
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| Website           | www.zxchem.com                                                                                |