3-Mercaptopropionic Acid
(3-MPA) – 80%

CAS #: 107-96-0

DESCRIPTION

3-Mercaptopropionic Acid (3-MPA) is a bifunctional molecule containing both a carboxylic acid and a thiol group. It is produced from acrylic acid and hydrogen sulfide. Owing to its dual functionality, 3-MPA is widely used as a crosslinking and chain-transfer agent in polymer synthesis.

KEY FEATURES

- Bifunctional structure containing thiol and carboxylic acid groups
- Effective crosslinking agent for polymer and PCE synthesis
- Excellent chain transfer performance in polymerisation processes
- Suitable for controlled modification of molecular weight
- Good solubility and compatibility in aqueous systems
- Cost-effective alternative to higher purity grades
- Consistent performance for industrial-scale applications

APPLICATIONS

- Crosslinker in the production of polycarboxylate ethers (PCEs)
- Intermediate in polyol production
- Modifier in specialty polymers and coatings

TYPICAL SPECIFICATIONS

Property	Specification
Assay (%)	≥ 80
Iron (Fe, ppm)	≤ 1
Water Content (%)	≤ 20
Density (g/mL)	1.18-1.19
pH	2 – 3
Appearance	Clear liquid

(Values are typical and not intended as guaranteed specifications.)

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PACKAGING

- IBCs
- Bulk shipments

STORAGE & HANDLING

Store in a cool, dry, well-ventilated area away from direct sunlight. Keep containers sealed in original packaging to prevent contamination.

SAFETY

- Avoid inhalation and direct contact with skin or eyes.
- Use appropriate PPE and adequate ventilation.
- Refer to the Safety Data Sheet (SDS) for detailed information on safe handling, storage, and disposal.