3-Mercaptopropionic Acid
(3-MPA) – 99%

CAS #: 107-96-0

DESCRIPTION

3-Mercaptopropionic Acid (3-MPA) is a versatile bifunctional molecule containing both a carboxylic acid and a thiol group. Derived from acrylic acid and hydrogen sulfide, 3-MPA is widely used in polymer and specialty chemical synthesis as a crosslinker and intermediate.

KEY FEATURES

- Bifunctional structure with both thiol and carboxylic acid groups
- Highly reactive for crosslinking and polymer modification
- Excellent chain transfer properties in polymerisation systems
- Enhances adhesion and bonding performance
- Improves flexibility and durability in formulated systems
- Compatible with a wide range of resins and chemical processes
- High purity grade suitable for specialty chemical 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 (%)	≥ 99
Iron (Fe, ppm)	≤ 2
Chloride (Cl, ppm)	≤ 400
Density (g/mL)	1.20 – 1.22
pH	2 – 3
Appearance	Clear, near water-white liquid

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

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Specialty Chemical Experts

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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.