

Acrylic Acid

Properties and Characteristics

Acrylic acid is an organic compound miscible with water, alcohols, ethers and chloroform. It is used in the manufacture of plastics, paint formulations, in latex applications, in floor polish, in polymer solutions for coatings applications, emulsion polymers, and paper coatings. Acrylic acid is also used as a chemical intermediate.

Specifications

Property	Value
CAS Number	79-10-7
EINECS Number	201-177-9
HS Code	2916110000
Standard	Industrial Grade
Molecular Formula	C ₃ H ₄ O ₂
Appearance	Clear, colorless liquid
Purity	99.5% min
Color (Pt-Co)	20 max
Moisture	0.1-0.2 max
MEHQ	200±20 ppm

Applications

Acrylic acid (AA) is as an intermediate for several polymers and compounds. Acrylic acid is used in the production of coatings, elastomers, adhesives, thickeners, superabsorbents, acrylic esters, and fiber sizings. Sodium acrylate (the sodium salt of glacial acrylic acid) is copolymerized with acrylamide to make an anionic copolymer (a-PAA), which is used as a flocculent in water treatment.

Packaging

200kg plastic drum.

Handling

Acrylic acid is severely irritating and corrosive to the skin and the respiratory tract. Eye contact can result in severe and irreversible injury. Low exposure will cause minimal or no health effects.