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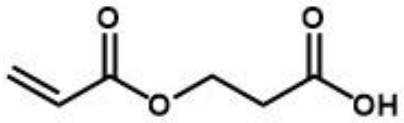
BIMAX® BETA-C

Beta-carboxyethyl acrylate
CAS No. 24615-84-7
EINECS No. 2463599



Applications

BETA-C is a carboxylic monomer like acrylic or methacrylic acid but provides greater separation between the carboxylic acid functionality and the polymerizable vinyl functionality. It can be polymerized in solution or emulsion to produce acrylic, vinyl-acrylic or styrenic-acrylic polymers with improved adhesive properties. Other key differences compared to conventional carboxylic acid functional materials include:

→ promoting flexibility in polymers due to the lower glass transition of its homopolymers (T_g 30°C).
→ providing improved adhesion and stability in emulsion polymers, due to the acid functional groups being more available than those in conventional carboxylic acids.
→ greater reactivity in its salt form than acrylic acid, allowing high levels of incorporation over a wide pH range.
→ greater compatibility with other monomers because of its extended chain. This reduces aqueous phase polymerization and produces more uniform copolymers.

Typical Properties

Active monomer, %	97
Color, APHA	30
MEHQ, ppm	1000
Moisture, %	0.6
Acid number, meq/g	6.6

Physical Properties

Appearance	clear, light amber liquid
Molecular weight	144.1 g/mol
Refractive index, 25°C	1.455
Viscosity, 25°C	47 cst
Specific Gravity, 25°C	1.196

Packaging

55-gallon poly drums, containing 208.6 kg each
275-gallon IBCs, containing 1043.0 kg each

Storage and Handling

Store at temperatures below 25°C, away from heat and sunlight. Wear goggles and gloves. Handling and use should be treated as corrosive material (acid). Eye and skin contact should be avoided. If contact occurs, wash affected area immediately with cold water. Consult the Safety Data Sheet.

This information is presented for your consideration in the belief that it is accurate and reliable; however, Bimax makes no guarantees or warranty, either expressed or implied, of the accuracy or the completeness of this information. The information in this data sheet is designed only as a guidance for safe handling, storage and use of the substance. It is not a specification, nor does it guarantee any specific properties. All chemicals should be handled only by competent personnel, within a controlled environment. Individuals receiving this information are expected to use their own judgment in determining the relevancy for a particular circumstance. Accordingly, Bimax will not be responsible for damages of any kind resulting from the use of, or reliance upon, such information.

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