

L-61045 (β-CEA) β-Carboxymethacrylate

CAS#: 24615-84-7

Molecular Structure: CH₂=CH-COO-CH₂CH₂COOH

Molecule Weight (g/mol): 144.12

Description

L-61045 β-Carboxymethacrylate is a reactive acrylic double bond that is easily copolymerized with vinyl and acrylic monomers in emulsion polymerization and radiation curing systems. Having a lower glass transition temperature can effectively promote adhesion and improve the stability of the emulsion. Having longer side carboxylic acid chains gives good flexibility and promotes more effective interaction between the polymer and the substrate, thus enhancing the adhesion and peel strength. This strength tends to increase with time. β-CEA cross-links with amino, hydroxyl, epoxy, isocyanate functional groups and other structures, and is suitable for water-based, solvent-based and 100% solid systems. Low Tg value (37°C), can be used to adjust the hardness of paint or improve the bonding strength of pressure-sensitive adhesive.

Technical Data

Appearance	Transparent liquid
Color Number (APHA)	≤ 200
Viscosity (25°C, CPS)	70 - 80
Density (25°C./cm ³)	1.194
Boiling Point: 19mmHg, °C	103
PH (10% aqueous solution)	1
Flash Point °C	87
Water Solubility Ratio	1 : 1
Acid Value (MEQ/g)	6.4 - 7.0
Polymerization Inhibitor (ppm)	500 - 800
Moisture Karl Fischer Method%	< 1
Tg (°C)	37
Functional Group	1

Product Features

UV adhesive adhesion enhancer, active diluting monomer
Give lamination adhesive products excellent repeated adhesion
Enhances the bonding strength of pressure-sensitive adhesives, acting as an adhesion promoter
Significantly improve the adhesion of polyurethane baking paint system and the adhesion/peel strength on surfaces with polar functional groups

Applications

Used as an excellent reactive diluent in UV curing coatings, adhesives, and ink systems to improve adhesion. Special monomer for emulsion polymerization, adhesive and coating resin production.

Storage Conditions

To prevent premature polymerization due to the high reactivity of this product, keep it tightly sealed and store away from heat sources and direct sunlight. It is recommended to maintain storage temperature below 30 °C. Unused product should be promptly resealed and must not be left open. Under ventilated conditions at 25 °C, the product has a safe storage period of 6 months. Available packaging: 25 kg / 200 kg per drum

Tips:L-61045 A monomer alternative to phosphate esters, featuring a low acid value. Exhibits excellent adhesion to plastics, metals, and glass. In waterborne coatings, it can enhance scratch resistance and scrub resistance.

Note: Technical data represents typical values only. In view of the differences in formulas, production process, conditions, all the above statements must be adjusted according to the actual situation, our company does not make any promises. Our company reserves the right to reform its products without prior notice of any changes.