

L-6102(ACMO) Acryloylmorpholine

CAS#5117-12-4

Molecule Weight (g/mol): 141.17

Description

L-6102 ACMO is a specialty UV monomer featuring ultra-low viscosity, low odor, low volatility, and low irritation. It provides an excellent balance of hardness and flexibility, and is a fast-curing, mono-functional monomer. It exhibits strong adhesion to a wide range of substrates, making it ideal for adjusting flexibility, adhesion, and viscosity in highly flexible UV systems.

Technical Data

Appearance	Colorless or yellowish transparent liquid
Acid Value (mg KOH/g)	≤ 3
Color Number (APHA)	≤ 60
Viscosity (25°C, CPS)	8 - 12
Density d (g/mL, 25/4°C)	1.122
Boiling Point (°C, normal pressure)	158°C (50mmHg)
Tg(°C)	145
Refractive Index	1.508
Surface Tension (dyne/cm)	44.6mN/m (20°C)
Functional Group	1

Product Features

Low-odor, low-irritation mono-functional monomer, water-miscible and suitable for water-based UV systems

Reacts faster than typical mono-functional monomers, comparable to the speed of 2–3 functional monomers

Excellent flexibility with moderate hardness; when combined with high-functional oligomers, small additions can produce products that are both hard and flexible

Good dispersion for pigments and dyes

Applications

UV adhesives; 3D UV printing resins; UV nail polishes; UV inks; UV coatings, etc.

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-6102 ACMO is a special UV monomer with fast reaction speed, good adhesion and low viscosity.

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.