

L-61062 (VEEA) 2-(Ethenyloxy)ethoxyethyl Acrylate

CAS#: 86273-46-3

C9H14O4

Molecular weight (g/mol): 186.21

Description

L-61062 VEEA contains both vinyl ether and acrylate functional groups, providing dual-curing capabilities for UV and cationic systems. It features low odor, extremely high reactivity, fast curing speed, high film hardness, strong diluting ability, and excellent adhesion enhancement for coatings. With low skin irritation, it is widely used in UV polymerization, UV inks, UV coatings, UV 3D printing, EB electron-beam curing, and optical photoresist applications.

Technical Data

Appearance	Transparent liquid
Color Number (APHA)	≤ 50
Acid Value (mg)	≤ 0.5
Viscosity (25°C, CPS)	3~8
Moisture (%)	≤ 0.2
Inhibitor (ppm)	≤ 100
Refractive Index	1.451
Glass Transition Temperature Tg,°C	15
Functional Group	2

Product Features

High-end Coatings and Inks: VEEA, as a key component in UV-curable coatings, can significantly enhance coating hardness and wear resistance. For example, in automotive OEM paints, the addition of VEEA increases the coating gloss to over 90 while meeting VOC emission standards. In UV inks, its low viscosity (3.65 mPa·s at 25 °C) enables excellent pigment dispersion and printing resolution above 1200 dpi.

Electronic Packaging and Adhesives: In semiconductor packaging, VEEA's dual-curing capability addresses incomplete curing issues of conventional epoxy resins, improving the hermeticity of encapsulation layers by 60%. In flexible display bonding, its flexibility allows materials to endure over 100,000 bending cycles, meeting the requirements of foldable devices.

3D Printing and Biomedical Applications: As an active diluent in photopolymer resins, VEEA adjusts material flow, achieving printing precision up to 20 μm. In biomedical applications, its low toxicity (ISO 10993 biocompatibility certified) makes it an ideal choice for coatings on orthopedic implants.

Applications

UV adhesives, UV inkjet, UV inks, UV coatings, UV wood 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-61060 Highly water-soluble, also demonstrates excellent performance in waterborne UV coatings.

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.