

Laromer[®] DPGDA

Product Description

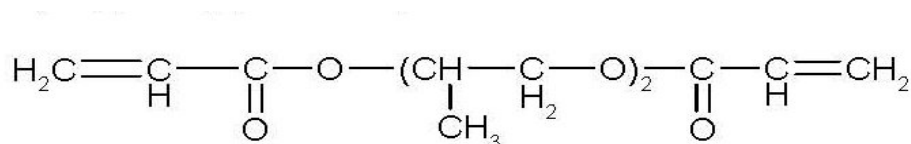
Laromer DPGDA is an acrylic acid ester used as a reactive diluent in energy curable coatings, inks, overprint varnishes, as a feedstock for synthesis, and for manufacturing polymers. It contains two polymerizable acrylate groups per molecule, which enables it to form copolymers.

Key Features & Benefits

- Good adhesion
- Good reactivity
- Good pigment dispersion stability

Chemical Structure

Dipropylene glycol diacrylate



Properties

Typical Properties

Appearance		clear liquid
Odor		ester – like
Assay	%	≥ 80
Gas chromatography		
Acidity, as acrylic acid	%	≤ 0.05
DIN EN ISO 2114, method B		
Water content	%	≤ 0.05
K. Fischer, DIN 51777		
Hazen/APHA color number		≤ 70
DIN ISO 6271		
Density at 25°C	g/cm ³	1.050
DIN 51757, method 4.3		
Boiling point	°C (°F)/mbar	104 (219)/0.3
DIN EN ISO 3405		
Specific heat capacity at 30°C	kJ/(kg K)	1.88
Solidification point	°C	- 40
ISO DIS 3841		
Refractive index n _D at 20°C		1.451
DIN EN ISO 489		

Solubility

of Laromer DPGDA in water	g/l	15.3
of water in Laromer DPGDA	g/l	16.7

Diluent Tolerance

Can be mixed with most organic solvents.

These typical values should not be taken as specification.

Applications

Laromer DPGDA contains two polymerizable acrylate groups per molecule, which enables it to form copolymers of, for example, acrylic or methacrylic acids and their salts, amides, esters, vinyl acetate, and styrene. Readily entering into addition reactions, Laromer DPGDA is also an important feedstock for chemical synthesis.

The polymerizable groups allow the product to be used as a crosslinking component in energy curable coatings, inks, and overprint varnishes where it also acts as a reactive diluent. During curing, Laromer DPGDA becomes part of the polymer structure. This monomer provides good reactivity, adhesion and pigment stability.

Laromer DPGDA is recommended for applications such as:

- Printing inks for flexographic, gravure, digital, or silk-screen applications
- Overprint varnishes for commercial or publication applications
- Interior/exterior general industrial metal coating applications
- Interior/exterior wood coatings for floor, furniture, or millwork applications

Processing

This product can be polymerized by the usual block, solution, suspension, and emulsion techniques. Removal of the stabilizer beforehand is generally not necessary. An excess of initiator can counteract its effect if needed.

Safety

General

The usual safety precautions when handling chemicals must be observed. These include the measures described in federal, state, and local health and safety regulations, thorough ventilation of the workplace, good skin care, and wearing of protective goggles.

Safety Data Sheet

All safety information is provided in the Safety Data Sheet for Laromer DPGDA.

Storage

Please refer to the "Handling and Storage of Polymer Dispersions" brochure.

Important

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