Printing & Packaging Industrial Coatings

Technical Data Sheet

Laromer[®] DPGDA

We create chemistry

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.

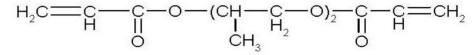
Key Features & Benefits

Good adhesion
Good reactivity

- Good pigment dispersion stability

Chemical Structure

Dipropyleneglycol diacrylate



Properties

Typical Properties	Appearance Odor Assay (gas chromatography) Acidity, as acrylic acid (DIN EN ISO 2114, method B) Water content (K. Fischer, DIN 51777) Hazen/APHA color number (DIN ISO 6271) Density at 25°C (DIN 51757, method 4.3) Boiling point (DIN EN ISO 3405) Specific heat capacity at 30°C Solidification point (ISO DIS 3841) Refracting index n _D at 20°C (DIN EN ISO 489)	clear liquid ester – like ≥ 80% ≤ 0.05% ≤ 0.05% ≤ 70 1.050 g/cm ³ 104°C (219°F)/0.3 mbar 1.88 kJ/(kg K) - 40°C 1.451
Solubility	of Laromer [®] DPGDA in water of water in Laromer [®] DPGDA	15.3 g/l 16.7 g/l
Solubility, diluent tolerance	Can be mixed with most organic solvents.	
	These typical values should not be interpreted as specifications.	

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: **Pigment dispersions** 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 This product can be polymerized by the usual block, solution, suspension, and emulsion techniques. Processing 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. Safetv Data Sheet All safety information is provided in the Safety Data Sheet for Laromer[®] DPGDA.

Important

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