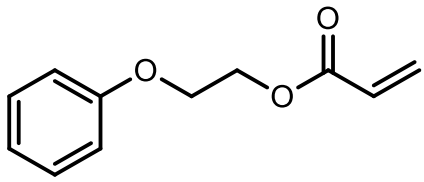
Laromer® POEA NG

Product description

Acrylic acid ester as a reactive thinner for radiation-curable coatings, as a feedstock for syntheses and for manufacturing polymers.

Chemical nature

Phenoxyethyl acrylate



Properties

Physical form

Clear liquid

Technical data

(not supply specification)

Water content	DIN EN 13267 (Karl Fischer)	≤ 0.1 %
Acidity, as acrylic acid	DIN EN ISO 2114	≤ 0.1 %
Colour value	DIN EN 6271 (APHA)	≤ 70
Assay (gas chromatography)	BASF method	≥ 97 %
Viscosity, dynamic	DIN EN ISO 3219 B (25 °C)	~ 8 mPa.s
Density	(25 °C)	~ 1.105 g/cm³
Refractive index nD	(20 °C)	~ 1.52

Compatibility

Laromer® POEA NG can be mixed with cyclohexanone, ethanol, methanol and toluene.

Application

Laromer® POEA NG contains one polymerizable acrylic group 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® POEA NG is also an important feedstock for chemical syntheses.

The product can be polymerized by the usual UV/EB 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.

Formulation guideline

A suitable photoinitiator must be used to photocure Laromer® POEA NG. The photoinitiator types include, for example, α-hydroxy ketone, benzophenone, acyl phosphine oxide, and blends thereof, for typical coating applications. The amount of photoinitiator varies between 2 – 5 % based on Laromer® POEA NG as delivered.

Acyl phosphine oxide types (MAPO, MAPO-Liquid and BAPO) of photoinitiators are recommended for film thicknesses of 50 g/m² to ensure through curing.

Storage

Product ought to be kept within sealed unopened containers. Containers should be stored below 35 °C and away from sunlight.

Safety

When handling this product, please comply with the advice and information given in the safety data sheet and observe protective and workplace hygiene measures adequate for handling chemicals.

Note

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights, etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. The agreed contractual quality of the product results exclusively from the statements made in the product specification. It is the responsibility of the recipient of our product to ensure that any proprietary rights and existing laws and legislation are observed.

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BASF SE
Resins & Additives Europe
67056 Ludwigshafen, Germany
www.basf.com/resins

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