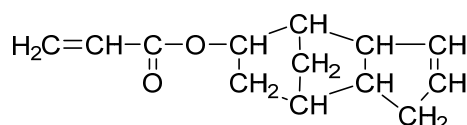


# Dihydrodicyclopentadienyl Acrylate (DCPA)

Acrylic acid ester, for manufacturing polymers and for use as a feed stock for syntheses



CAS No.: 12542-30-2  
EINECS No.: 235-697-2

## Molecular formula

C<sub>13</sub>H<sub>16</sub>O<sub>2</sub>

Molar mass: 204.3 kg/kmol

## Product specification

Assay (Gas chromatography)	min. 95.0 %
Water content (ASTM E 203)	max. 0.1 %
Acid content (calc. as acrylic acid) (ASTM D 1613)	max. 1.0 %
Standard stabilization (HPLC or ASTM D3125)	300 ± 50 ppm MEHQ

The aforementioned data shall constitute the agreed contractual quality of the product at the time of passing of risk. The data are controlled at regular intervals as part of our quality assurance program. Neither these data nor the properties of product specimens shall imply any legally binding guarantee of certain properties or of fitness for a specific purpose. No liability of ours can be derived therefrom.

## Other properties

Appearance	clear, yellowish
Physical form	liquid
Odor	pungent, distinctive
Density at 20 °C	1.07 g/cm <sup>3</sup>
Refractive index n <sub>d</sub> at 20 °C	1.5075 – 1.5085
Boiling point at 0.7 mbar	81 °C
Melting point	– 40 °C
Viscosity at 20 °C	14.4 mPa · s
Vapor pressure at 20 °C	0.088 mbar

## Labelling according to local Directives

see SDS

**Applications**

Dihydrodipentadienyl Acrylate (DCPA) forms homopolymers and copolymers. Copolymers of Dihydrodipentadienyl Acrylate (DCPA) can be prepared with acrylic acid and its salts, amides and esters, and with methacrylates, acrylonitrile, maleic acid esters, vinyl acetate, vinyl chloride, vinylidene chloride, styrene, butadiene, unsaturated polyesters and drying oils, etc. Dihydrodipentadienyl Acrylate (DCPA) is also a very useful feedstock for chemical syntheses, because it readily undergoes addition reactions with a wide variety of organic and inorganic compounds.

**Features & Benefits**

Dihydrodipentadienyl Acrylate (DCPA) is a monofunctional monomer with a characteristic high reactivity of acrylates and a bulky unsaturated hydrophobic moiety. Dihydrodipentadienyl Acrylate (DCPA) can be used to impart the following properties to polymers:

- Crosslinking
- Hydrolytic stability
- Hydrophobicity
- Adhesion
- Heat resistance
- Hardness

**Storage & Handling**

In order to prevent polymerization, Dihydrodipentadienyl Acrylate (DCPA) must always be stored under air, and never under inert gases. The presence of oxygen is required for the stabilizer to function effectively. It has to contain a stabilizer and the storage temperature must not exceed 35 °C. Under these conditions, a storage stability of one year can be expected upon delivery. In order to minimize the likelihood of overstorage, the storage procedure should strictly follow the "first-in-first-out" principle. For extended storage periods over 4 weeks it is advisable to replenish the dissolved oxygen content.

Storage tanks and pipes should be made of stainless steel or aluminum. Storage tanks, pumps and pipes should be earthed.

**Safety**

A Safety Data Sheet has been compiled for Dihydrodipentadienyl Acrylate (DCPA) that contains up-to-date information on questions relevant to safety.

**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. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed.

June 2016