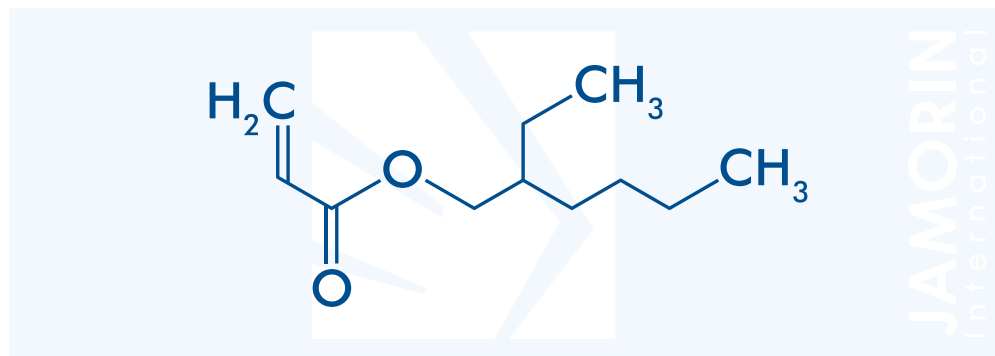


Acrylic acid ester, for manufacturing polymers and for use as a feed stock for syntheses



CAS # 103-11-7

EINECS # 203-080-7

**MOLECULAR FORMULA**

$C_{11}H_{20}O_2$

**MOLAR MASS**

184.3 g/mol

**PRODUCT SPECIFICATION**

Properties	Typical	Method
Assay	min 99.6 %	Gas chromatography
Water content	max 0.05 %	ASTM E 203
Acid content (calc. as acrylic acid)	max 0.009 %	ASTM D 1613
Color on dispatch	max 10	APHA, ASTM D 1209
Standard stabilization	15 ±5 ppm MEHQ	HPLC or D 3125

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**

Properties	Typical	Method
Appearance	Clear, colorless	
Physical form	Liquid	
Odor	Sweet	
Density @ 20 °C	0.885 g/cm <sup>3</sup>	
Refractive index $n_d$ @ 20 °C	1.435	
Boiling point @ 1013 mbar	216 °C	
Boiling point @ 13 mbar	91 °C	
Freezing point	approx.-90 °C	
Viscosity @ 0 °C	2.9 mPa · s	
Viscosity @ 20 °C	1.7 mPa · s	
Viscosity @ 40 °C	1.2 mPa · s	

Jamorin has Material Safety Data Sheets (MSDS) for each products. The MSDS contain relevant information needed to safeguard your employees from any known safety and health hazard related with our products. Jamorin provides you MSDS for all the products you evaluate or buy. It is also necessary that you get copies of the MSDS of the other raw materials recommended in our technical bulletins from the suppliers. Your employees should have ready access to and to be trained well on the proper use of MSDS

Properties	Typical	Method
Specific heat of liquid	1.89 kJ/kg °C	
Heat of evaporation at boiling point	248 kJ/kg	
Heat of polymerization	approx. 332 kJ/kg	
Vapor pressure @ 20 °C	1.4 mbar	
Vapor pressure @ 50 °C	5.4 mbar	
Vapor pressure @ 100 °C	19.8 mbar	
Temperature rating for electrical equipment	200...300 °C	

### APPLICATIONS

2-Ethylhexyl Acrylate (2-HEA) forms homopolymers and copolymers. Copolymers of 2-Ethylhexyl Acrylate (2-HEA) 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. 2-Ethylhexyl Acrylate (2-HEA) is also a very useful feed-stock for chemical syntheses, because it readily undergoes addition reactions with a wide variety of organic and inorganic compounds.

### STORAGE & HANDLING

In order to prevent polymerization, 2-Ethylhexyl Acrylate (2-HEA) 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. For extended storage periods over 4 weeks it is advisable to replenish the dissolved oxygen content. Under these conditions, a storage stability of one year can be expected. In order to minimize the likelihood of overstorage, the storage procedure should strictly follow the «first-in-first-out» principle.

Storage tanks and pipes should be made of stainless steel or aluminium. Although 2-Ethylhexyl Acrylate (2-HEA) does

not corrode carbon steel, there is a risk of contamination if corrosion does occur.

Storage tanks, pumps and pipes must be earthed.

### SAFETY

A Material Safety Data Sheet has been compiled for 2-Ethylhexyl Acrylate (2-HEA) that contains up-to-date information on all questions relevant to safety.

### PACKAGING

It can be purchased in bulk and 200L drum. Special packing can be arranged.

### 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.

**DISCLAIMER** «It is in good faith that we offer suggestions on the use of our products and these are based on knowledge we believe are correct and dependable. However, these are with no guarantee as process and conditions in the use of our products may vary and are beyond our control. We strongly recommend that users of our products verify the appropriateness of our suggestions before using them on a commercial scale».

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