

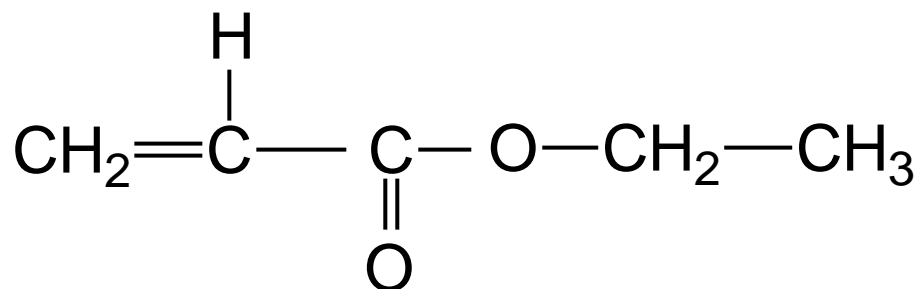
ETHYL ACRYLATE (EA)

Acrylic acid, ethyl ester
2-Propenoic acid, ethyl ester

Cas number: 140-88-5

EINECS number: 205-438-8

CHEMICAL FORMULA



Molecular weight: 100

SPECIFICATIONS

	SPECIFICATION	METHOD
Appearance	Clear liquid	Visual
Colour (APHA)	10 maximum	ASTM D1209
Purity	99.5 % minimum	Gas Chromatography
Water content	400 ppm maximum	ASTM D1364
Acidity (expressed as acrylic acid)	30 ppm maximum	ASTM D1613
Inhibitor content (MEHQ)	10 - 20 ppm	UV Spectroscopy

HANDLING AND SAFETY ADVISES

We advise you to read carefully the safety data sheet.

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MAIN PHYSICAL PROPERTIES

Molecular weight..... 100 g/mol
Boiling point, at 1013 mbar..... 99.8 °C
Freezing point, at 1013 mbar - 71.2 °C
Specific gravity at 20°C..... 0.922
Refractive index, n_D at 20°C..... 1.407
Viscosity at 20°C..... 0.56 mPa.s
Solubility water in EA at 20°C1.6 g/100 g
EA in water at 20°C..... 2.0 g/100 g
Specific heat in liquid state 1.97 kJ/kg °C
Latent heat of vaporisation..... 347 kJ/kg
Heat of polymerisation..... 655 kJ/kg
Flash point in closed cup 9 °C
Vapour pressure at 20°C..... 40 mbar
Auto-ignition temperature..... 372 °C

PACKAGING

Ethyl Acrylate is delivered:

- in 25000 to 36000 liters stainless steel road tankcars
- in 25000 to 35000 liters stainless steel containers

STORAGE

The standard inhibition is 15 ppm Monomethyl Ether of HydroQuinone (MEHQ).

With this inhibitor, the product should be stored at a temperature of no more than 25°C and away from light.

It must also be stored under air atmosphere, as the presence of oxygen is essential to activate the stabilizer.

Under these conditions, the product is commercially guaranteed for six months after delivery.

Ethyl acrylate is a highly flammable product, and the usual precautions must be taken in handling it.

For more detailed information, please consult the brochure "SAFE HANDLING AND STORAGE OF ACRYLIC ESTERS" produced by the European Basic Acrylic Monomer Manufacturers Association (EBAM).

APPLICATIONS

Ethyl acrylate is used in the composition of copolymers, with a wide range of industrial applications, such as:

- resins and dispersions for non-woven fabrics, textiles and leather
- leaning and waxing products
- synthetic rubbers and lattices
- plastics and synthetic resins
- thickeners
- organic synthesis.

ACRYLIC MONOMERS BU/V7/05.23

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