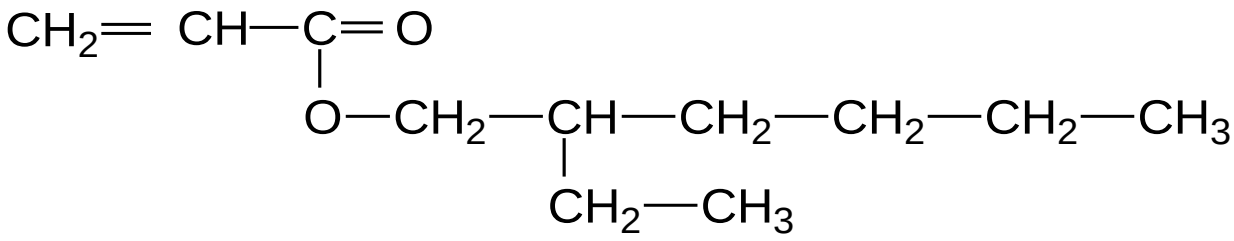
2-ETHYLHEXYL ACRYLATE (2-EHA)

Acrylic acid, 2-ethylhexyl ester
2-Propenoic acid, 2-ethylhexyl ester

Cas number: 103-11-7

EINECS number: 203-080-7

CHEMICAL FORMULA



Molecular weight : 184

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)	100 ppm maximum	ASTM D1613
Inhibitor content (MEHQ)	10 to 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 ..... 184 g/mol
Boiling point, at 1013 mbar ..... 215 °C
Freezing point, at 1013 mbar ..... - 90 °C
Specific gravity at 20°C 0.88
Refractive index, n_D at 20°C 1.435
Viscosity at 20°C ..... 1.75 mPa.s
Solubility
water in 2-EHA at 20°C .....0.0017 g/100 g
2-EHA in water at 20°C ..... < 0.001 g/100 g
Specific heat in liquid state ..... 1.97 kJ/kg °C
Latent heat of vaporization..... 234 kJ/kg
Heat of polymerization ..... 332 kJ/kg
Flash point in closed cup ..... 86 °C
Vapour pressure at 20°C ..... < 1 mbar
Auto-ignition temperature ..... 252 °C

PACKAGING

2-Ethylhexyl acrylate is delivered:
- in 55000 to 65000 liters protected ordinary steel rail tankcars
- 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.

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

2-Ethylhexyl acrylate is used in the composition of copolymers, with various industrial applications, such as:

- resins and dispersions for non-woven fabrics, inks, glues and adhesives
- cleaning and waxing products
- synthetic rubbers and lattices
- aqueous dispersions for non-woven fabrics, textiles, paper
- plastics and synthetic resins
- additives for fuel oils and lubricating oils.

ACRYLIC MONOMERS BU/V8/05.23

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