

# 2-Ethylhexyl Acrylate

## Description

2-Ethylhexyl Acrylate is a flammable, colorless, transparent liquid.

Depending on the monomer selection and chemical reaction conditions, various physical properties can be realized after polymerization.

Properties	Unit	2-Ethylhexyl Acrylate	Method
<b>Specification</b>			
Purity		≥99.5	
Color		≤10	
Water Content		≤0.05	
Inhibitor		10~20	
Acidity		≤70	
Specific Gravity		0.882~0.888	
<b>Typical Properties</b>			
Boiling Point		215	
Freezing Point		-90	
Refractive Index	nD	1.435	25°C
Heat Capacity	cal/g°C	0.45	20°C
Heat of Polymerization	cal/g	79.34	
Solubility in Aqueous	wt %	0.01	25°C
aq.in subs	wt %	0.14	25°C
Homopolymer Tg	°C	-70	

## Summary

Synonym :

Acrylic acid,2-ethylhexyl ester

2-Propenoic acid,2-ethylhexyl ester

2-Ethylhexyl propenoate

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CAS No : 103-11-7

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EINECS No : 203-080-7

## Chemical Formula

## Note

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

- Resins and emulsion polymers or dispersions for non-woven fabrics, inks, glues pressure sensitive adhesive, textiles, paper
- Cleaning and floor waxing products
- Synthetic rubbers and latexes
- Plastics and synthetic resins
- Additives for fuel oils and lubricating oils.

2-Ethylhexyl acrylate is able to addition reaction to the double bond and to polymerize and copolymerize.

Some copolymer reactivity ratios  $r_1$ ,  $r_2$  of 2-ethylhexyl acrylate (M1) with various monomers (M2) was calculated from the Alfred & Price equation.

Styrene :  $r_1 = 0.26$   $r_2 = 0.94$

Methyl methacrylate :  $r_1 = 0.53$   $r_2 = 1.80$

Vinyl acetate :  $r_1 = 12.43$   $r_2 = 0.05$

## Precaution

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 35°C and away from light.

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

2-Ethylhexyl acrylate is a flammable product, and the usual precautions must be taken in handling it.

For more information, please refer a material safety data sheet.

## Package

2-Ethylhexyl acrylate is delivered :

- 20MT with ISO tank

- 180Kg with steel drum

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