

# BUTYL ACRYLATE (BA)

*n-Butyl acrylate*

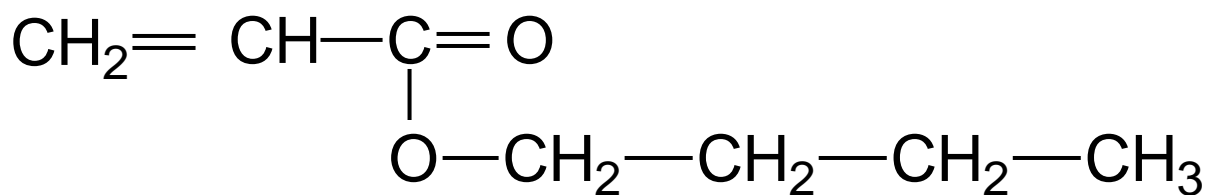
*Acrylic acid, n-butyl ester*

*2-Propenoic acid, n-butyl ester*

Cas number: 141-32-2

EINECS number: 205-480-7

## CHEMICAL FORMULA



Molecular weight : 128

## 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.

# BUTYL ACRYLATE (BA)

## *n-Butyl acrylate*

### *Acrylic acid, n-butyl ester*

### *2-Propenoic acid, n-butyl ester*

#### MAIN PHYSICAL PROPERTIES

Molecular weight.....	128 g/mol
Boiling point, at 1013 mbar .....	147 °C
Freezing point, at 1013 mbar .....	- 64.6 °C
Specific gravity at 20°C.....	0.898
Refractive index, $n_D$ at 20°C.....	1.419
Viscosity at 20°C.....	88 mPa.s
Solubility water in BA at 20°C ...	0.80 g/100 g
BA in water at 20°C.....	0.17 g/100 g
Specific heat in liquid state .....	1.98 kJ/kg °C
Latent heat of vaporization.....	292 kJ/kg
Heat of polymerization .....	504 KJ/kg
Flash point in closed cup .....	37 °C
Vapour pressure at 20°C .....	5.4 mbar
Auto-ignition temperature .....	275 °C

#### PACKAGING

Butyl 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 indoors 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.

Butyl acrylate is a 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

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

- resins and dispersions for paints, varnishes and inks, glues and adhesives
- aqueous dispersions for non-woven fabrics, textiles paper and leather
- cleaning and waxing products
- plastics and synthetic resins
- synthetic rubbers and lattices
- organic synthesis.

ACRYLIC MONOMERS BU/V7/05.23

#### Headquarters:

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