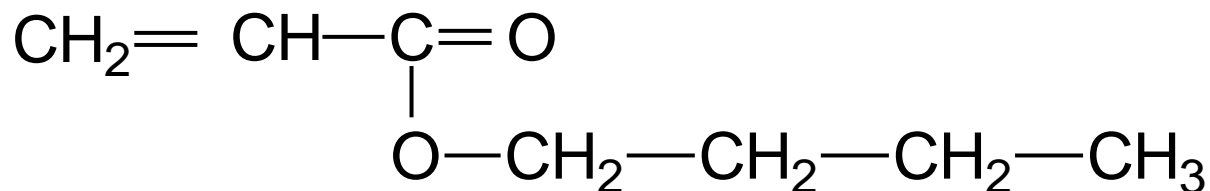


NORSOCRYL® BA**BUTYL ACRYLATE**

Cas number : 141-32-2

EINECS number : 205-480-7

CHEMICAL FORMULA

Molecular weight : 128

OTHER NAMES

Acrylic acid, n-butyl ester
2-Propenoic acid, n-butyl ester

SPECIFICATIONS

	SPECIFICATION	METHOD
Appearance	Clear liquid	Visual
Colour (APHA)	10 maximum	ASTM D1209
Purity by gas-phase chromatography	99.5 % minimum	GC
Water content	400 ppm maximum	ASTM D1364
Acidity (expressed as acrylic acid)	100 ppm maximum	ASTM D1613
Inhibitor content (MEHQ)*	10 to 20 ppm	ASTM D3125

* For some destinations, inhibitor standard is increased :
Specifications drums: inhibitor (MEHQ) 50 ± 10 ppm
All other properties and specifications remain the same

HANDLING AND SAFETY ADVISES :

We advise you to read carefully the safety data sheet.

ARKEMA
INNOVATIVE CHEMISTRY

NORSOCRYL® BA

MAIN PHYSICAL CHARACTERISTICS

Molecular weight	128
Boiling point, at 1013 mbar	147°C
Freezing point	- 64°C
Specific gravity	at 20°C 0.898 at 25°C 0.894
Refractive index, n _D	at 20°C 1.419 at 25°C 1.416
Viscosity	at 20°C 0.900 mPa.s at 25°C 0.808 mPa.s
Solubility	water in BA at 20°C 0.7 g/100 g BA in water at 20°C 0.2 g/100 g
Specific heat in liquid state.....	1.96 kJ/kg°C
Latent heat of vaporisation.....	297 kJ/kg
Heat of polymerisation	604 KJ/kg
Homopolymer glass transition temperature	- 54°C
Flash point	in open cup 48°C in closed cup 39°C
Lower explosion limit in volume	1.5 %
Vapour pressure	at 20°C 5.3 mbar at 30°C 10 mbar at 50°C 29 mbar
Auto-ignition temperature.....	297°C

CHEMICAL PROPERTIES

- Addition reactions to the double bond
- Ability to polymerise and copolymerise
- Values for the copolymerisation reactivity ratios r_1 , r_2 of butyl acrylate (M_1) with various monomers (M_2) have been calculated using the Alfred & Price formula

Styrene.....	$r_1 = 0.07r_2 = 0.45$
Methyl methacrylate.....	$r_1 = 0.34r_2 = 1.92$
Vinyl acetate.....	$r_1 = 4.95r_2 = 0.04$

PACKAGING AND STORAGE

Butyl acrylate is delivered :

- in 55 to 60 tons protected ordinary steel rail tankcars
- in 25000 to 32000 litres stainless steel road tankcars
- in 217 litres ordinary steel drums, loaded at 185 Kg.

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 stabiliser.

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.

USES

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.

ACRYLICS BU/013570/V5/15.04

The information contained in this document is based on trials carried out by our Research Centres and data selected from the literature, but shall in no event be held to constitute or imply any warranty, undertaking, express or implied commitment from our part. Our formal specification define the limit of our commitment. No liability whatsoever can be accepted by ARKEMA with regard to the handling, processing or use of the product or products concerned which must in all cases be employed in accordance with the relevant laws and/or regulations in force in the country or countries concerned.



ARKEMA France Acrylics Division
420 rue d'Estienne D'Orves 92700 COLOMBES France
www.arkema.com



www.norsocryl.com