

Foreverest Resources Ltd

Isobornyl Acrylate (IBOA)

99%

Isobornyl acrylate (IBOA) is a kind of acrylic ester monomer with a bridged-ring structure. It has excellent adhesion properties, good chemical resistance, and low shrinkage, making it a popular choice for use in UV-curable coatings on various substrates such as plastics, metals, and wood. IBOA is applied as an important monomer product in the printing ink formulation, solvent-based high-solid content transparent coatings, and curing coatings as a thickening agent, base material, reactive diluent, and curing agent. IBOA can also be used as a viscosity improver in dental resin, reducing the polymerization shrinkage of resin-based dental restorative materials. When used in bone cement, it can reduce adverse biological effects during implant bonding processes.

Substance Identification

Synonyms	IBOA
CAS	N/A

EINECS	
FEMA	N/A
HS.CODE	N/A
Molecular Formula	C13H20O2
Molecular Weight	208.3

Application & Uses

- Widely used in the manufacturing of high-performance acrylic resins and acrylic emulsions.
- Can be used as a co-monomer with other acrylic monomers in the preparation of pressure-sensitive adhesives (PSAs) for optical applications
- Used as a thickening agent, base material, reactive diluent, and curing agent in printing ink formulations, solvent-based high-solid content transparent coatings, and curing coatings.
- Suitable for producing decorative protective coatings for PET, PE, and PP soft plastic films, as well as engineering plastic components such as PE, PP, and PC.
- Used as a plasticizer in the plastics industry.
- Used as a viscosity improver in dental resin.
- Used in the development of high-performance and stable polymer gate dielectrics for organic thin-film transistors (OTFTs).
- Used in the preparation of UV-curable waterborne polyurethane (WPU) by copolymerization.

Features & Benefits

- Possesses UV resistance, water resistance, and chemical resistance, excellent adhesion properties, low shrinkage.
- Enhances the glossiness and adhesion of coatings.

- Improves properties such as flowability, abrasion resistance, aging resistance, and corrosion resistance of inks or coatings.
- Acts as a reactive diluent with low volatility, low toxicity, and minimal irritability, thus advantageous for improving the production and application environment of coatings.
- Can reduce adverse biological effects.

Sales Specification

ITEM	VALUE	TEST METHOD & UNIT
Appearance	Colorless transparent to light yellow transparent liquid	
Color	20max	@APHA
Specific Gravity	0.990 to 0.994	@20/4℃
Free acid	0.05 max	%
Moisture	0.02 max	%
Content	99.2 min	@GC, %
Camphene	0.05 max	@GC, %
Isobornol	0.80 max	@GC, %
High Boiling	1.00 max	@GC, %
Methanol Soluble	Clear	@5:45
MEHQ	100±10	PPM

Package

- PACKED IN 185KG PLASTIC DRUM / 925KG IBC DRUM

GHS Hazard Statements

Symbol	GHS07, GHS09
Signal Word	Warning
H-Code	H315-H319-H335-H411
P-Code	P273-P305 + P351 + P338-P391-P501
Risk Phrases	R20/22;R36/37/38
Safety Phrases	S26-S36
RIDADR	UN 3082 9 / PGIII

Storage

- Store in a cool place to protect from high temperature

Relation Products

- [Camphene](#)
- [Isobornyl Methacrylate \(IBOMA\)](#)

Relation Articles

- [Overview, application of Isobornyl Acrylate \(IBOA\) and Isobornyl Methacrylate \(IBOMA\)](#)

Remark

The above information is believed to be accurate and presents the best explanation currently available to us. We assume no liability resulting from above content. The technical standards are formulated and revised by customers' requirement and us, if there are any changes, the latest specification will be executed and confirmed in the contract.