

Silane USi-3301

Methacrylate functional alkoxy silane

Product Description

Chemical Name:

γ -methacryloxypropyltrimethoxysilane

Synonym:

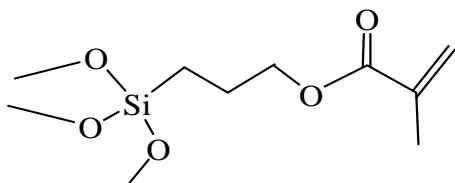
3-Trimethoxysilyl-propyl-methacrylate;

[3-(Methacryloyloxy)propyl]trimethoxysilane

CAS NO.: 2530-85-0

EINECS NO.: 219-785-8

Chemical structure:



Properties

Silane USi-3301, as a coupling agent in glass fiber-reinforced or filler-modified plastics improves filler dispersibility while reducing the filler's sedimentation tendency. It is also a major reduction in the melt viscosity of casting resins, as well as a marked improvement in the mechanical properties of glass-fiber-reinforced or mineral-filled plastics. In addition, it leads to a sizable increase in moisture resistance and greater resistance to acids and bases. Used as a co-monomer in polymers, silane USi-3301 produces binders that exhibit much improved wet scrub, abrasion and scratch resistance. As a component of free-radical curable adhesives and sealants.

Typical Technical Data

The below values are not intended for use in preparing specifications. Please confirm with us prior to writing specifications on this product.

Appearance: Transparent liquid

Colour (Pt-Co): 30 max

Specific Gravity ($\rho_{20^\circ\text{C}, \text{g/cm}^3$): 1.043~1.053

Refractive Index ($n_D^{25^\circ\text{C}}$): 1.4285~1.4310

Purity (by GC, %): 98.0 min

Applications

Silane USi-3301 is used as adhesion promoter in application such as :

- A constituent of glass fiber size (glass fiber fillers for unsaturated polyester resins and polyolefins)
- A finish for glass fabrics used in unsaturated polyester resins
- As a surface modifier for pigments and fillers for thermosets (unsaturated polyester, MMA), thermoplastics (polyesters and polyolefins) and elastomers
- As an additive for filled, peroxide-crosslinked elastomers
- As an additive for casting resins (unsaturated polyester, MMA)

Safety & Storage

Customers should review the latest MSDS and label for product safety information, safe handling instructions, personal protective equipment if necessary, and any special storage conditions required for safety. MSDS is available at www.usi-chemical.com or upon request.

Keep away from heat and open flame.
When stored at or below 25 °C in the original unopened containers, this product has a usable life of 12 months from the date of production.

Packaging

In 25kg, 200kg drum and 1000kg IBC

Contact Information

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