

# Silane USi-2H21

Epoxy functional organosilane

## Product Description

Chemical Name:

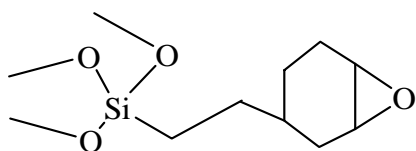
$\beta$ -(3, 4-Epoxy cyclohexyl)ethyltrimethoxysilane

Synonyms: Trimethoxy[2-(7-oxabicyclo[4.1.0]hept-3-yl)ethyl]silane

CAS NO.: 3388-04-3

EINECS NO.: 222-217-1

Chemical structure:



## Properties

Silane coupling agent USi-2H21 is mainly used in the modification of engineering plastic material, paint, coatings, inks, casting resins, adhesives, sealants, glass fiber, abrasives and electronic packaging material.

Meanwhile, as a bonding accelerator, it can be used as adhesion promoter, surface modifier, dispersant, mainly used to improve the binding and compatibility between inorganic mineral powders or fiber to polymer (resin), and attached force and water resistance of resin coating on the inorganic substrate.

## 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: Colorless transparent liquid

Colour (Pt-Co): 25 max

Specific Gravity ( $\rho_{20^\circ\text{C}, \text{g/cm}^3}$ ): 1.060~1.070

Refractive Index ( $n_D^{25^\circ\text{C}}$ ): 1.446~1.456

Purity (by GC, %): 98.0 min

## Applications

Silane USi-2H21 is used as adhesion in applications as follow:

- Improve the package reliability of electronic potting materials and other sealing materials.
- Enhance the adhesion of sealant: polyurethane, acrylic, epoxy, silicon rubber to glass and metal.
- An excellent adhesion promoter for resins: such as epoxy resin, phenolic resin, polyester resin, polysulfide rubber, polyamide, acrylic resin, PBT, polyurethane and so on.

## **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](http://www.usi-chemical.com) or upon request.

Keep away from heat and open flame. When stored at normal temperature 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 1000 IBC

## **Contact Information**

Nanjing Union Silicon Chemical Co., Ltd.

HQ Add: Rm 2002, Overseas Chinese Plaza, NO.1 Daqiao North Road, Nanjing (210031), Jiangsu Province P. R. China

Factory Add: Dongcheng Guanli District, Gaizhou (115200), Liaoning, P. R. China

Tel: 86-25-58895266 58895699

Fax: 86-25-58305349

Web: [www.usi-chemical.com](http://www.usi-chemical.com)

Email: [inquiry@usichemical.com](mailto:inquiry@usichemical.com)