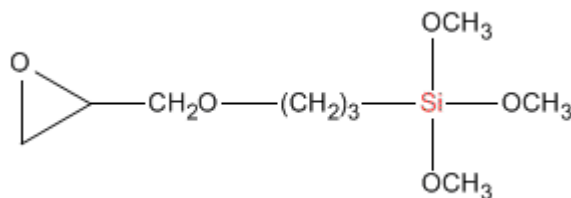


### SF-H560 3-Glycidyloxypropyltrimethoxysilane

#### product description

Structural formula:



Molecular formula: C<sub>9</sub>H<sub>20</sub>O<sub>5</sub>Si

Molecular weight: 236.4

CAS No.: 2530-83-8

Chemical Name: 3-Glycidyloxypropyltrimethoxysilane

#### Characteristic:

SF-H560 is an organosilane with an epoxy group and a hydrolyzable inorganic methoxysilyl bifunctional group. This bifunctional structure gives SF-H560 special properties: it can organically bond inorganic materials (such as glass, metals, fillers) and organic polymers (such as thermoplastics, thermosets, or elastomers) together. It plays the role of promoting adhesion, crosslinking agent and / or surface modifier.

It is a colorless, low-viscosity liquid with a slight odor of rosin, soluble in alcohols, ketones, chain hydrocarbons or aromatic hydrocarbons.

#### Physical and chemical data

| Item                     | Data                         |
|--------------------------|------------------------------|
| Appearance               | Colorless transparent liquid |
| Purity                   | ≥98.0%                       |
| Density 20°C g/ml        | 1.0600-1.0800                |
| Refractive index<br>25°C | 1.4220-1.4320                |

#### Reaction properties:

In the presence of water, SF-H560 methoxy groups will hydrolyze to form reactive silanol groups, which can form bonds with various inorganic substrate surfaces.

The hydrolysis of SF-H560 can be catalyzed by organic acids such as acetic acid. Suitable inorganic materials like glass, fiberglass, quartz, cristobalite and metal.

Resins that can be used in SF-H560 include epoxy resin, phenolic resin, polyurethane, PAVC, acrylic resin and polysulfide rubber.

#### Applications:

SF-H560 is an epoxy silane coupling agent. The epoxy group has the activity of reacting with various resins, and the silicon hydroxyl group formed after the hydrolysis of trimethoxy group can condense with the hydroxyl group on the surface of the inorganic material, thereby building a "molecular bridge" between the inorganic material and the resin. Joint effect. SF-H560 can be used

**Tianjin Sunfar New Materials Technology Co., Ltd.**

**Add: Room 105, Building C, Office Building, Comprehensive Service Zone, Nangang Industrial Zone, Tianjin Economic and Technological Development Zone**

**Tel: 022-66230987**

**Web: www.sunfar-silicone.com**

as adhesion promoter, surface modifier, dispersant, mainly used to improve the binding force, compatibility and resin coating of inorganic mineral powder materials, fibers to polymer (resin) Adhesion and water resistance of inorganic substrates. Typical uses of SF-H560 include modification of engineering rubber and plastic materials, paints, coatings, inks, casting resins, adhesives, sealants, glass fibers, abrasives, electronic packaging materials and other industries. SF-H560 is an excellent adhesion promoter. Suitable resins include epoxy resin, phenolic resin, polyester resin, polysulfide rubber, polyamide, acrylic resin, PBT, polyurethane and so on.

After the container is opened, it should be sealed to prevent water vapor from entering to produce hydrolysis.

Stored in the original unopened container at room temperature, this product has a shelf life of one year from the date of production, and expired products are tested

After passing, the buyer decides whether to continue to use it.

**Remarks:** The company is only responsible for the sales specifications of the products at the time of shipment, and is not responsible for any indirect or incidental damages.

**Package:**

25KG, 200KG ,1000KG