

# Silane USi-1301

Amino functional alkoxy silane

## Product Description

Chemical Name:

γ-Aminopropyltrimethoxysilane

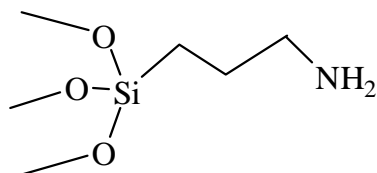
Synonym:

3-(Trimethoxysilyl)-1-propanamine

CAS NO.: 13822-56-5

EINECS NO.: 237-511-5

Chemical structure:



## Properties

In addition to its application as an adhesion Promoter in formulations and primers, USi-1301 functions as a surface modifier in fillers and pigments, where it improves the dispersibility of the filler and the mechanical properties - such as flexural strength, tensile strength and modulus - of the composites. The silane also reduces the filler's sedimentation tendency in the uncured polymer.

USi-1301 also greatly increases water (vapor) and corrosion resistance.

## 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 ( $\rho_{20^{\circ}\text{C},\text{g}/\text{cm}^3$ ): 1.0150~1.0190

Refractive Index ( $n_D^{25^{\circ}\text{C}}$ ): 1.422~1.425

Purity (by GC, %): 97.0 min

## Applications

Silane USi-1301 is an important additive in many applications, examples include:

- Glass fiber or glass fabric composites:  
As a size ingredient or finish
- Glass and metal primers
- Foundry resins: As an additive to cold curing phenolic and furan resins
- Sealants and adhesives: As a primer or additive and for chemical modification
- Mineral-filled polymers (composites):  
For pretreatment of fillers and pigments
- Paints and coatings:  
As an additive and primer for improving adhesion to the substrate

## **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 ordinary 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 950kg IBC

## **Contact Information**

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