



## Silfluo LS-VIPS

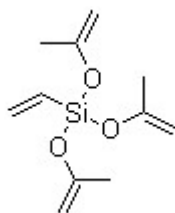
Enoxy Functional Silane (Neutral De-Acetone Crosslinker)

### Description:

Silfluo LS-VIPS is a highly specialized, ultra-premium organosilane chemically identified as Vinyltriisopropenoxysilane. It serves as the foundational crosslinking agent for the formulation of advanced, neutral-curing De-Acetone (Enoxy) Room-Temperature Vulcanizing (RTV) silicone sealants. Unlike traditional oxime crosslinkers that release toxic Methyl Ethyl Ketoxime (MEKO), or acetoxy silanes that release corrosive acetic acid, LS-VIPS cures via a fundamentally safe mechanism. Upon hydrolysis, its three isopropenoxy groups release only benign, highly volatile acetone. This makes LS-VIPS the absolute material of choice for formulators seeking to create 100% MEKO-free, non-corrosive, and eco-compliant sealants for high-end electronic, automotive, and architectural applications.

### Typical Physical Properties

Silfluo Code:	LS-VIPS
Chemical Name:	Vinyltriisopropenoxysilane
Synonyms	ethenyl-tris(prop-1-en-2-yloxy)silane
CAS No. :	15332-99-7
EINECS No. :	239-362-1
Molecular Formula:	C <sub>11</sub> H <sub>18</sub> O <sub>3</sub> Si
Molecular Weight:	226.34
Appearance:	Colorless transparent liquid
Purity (by GC, %):	95min
Density (25°C, g/cm <sup>3</sup> ):	0.955-0.965
Refractive Index (n <sub>25/D</sub> ):	1.4450-1.4500
Flash Point:	88.2°C Closed Cup
Chemical Structure:	



### Features

1. 100% MEKO-Free & Eco-Compliant: Hydrolyzes to release only neutral acetone gas, completely eliminating carcinogenic MEKO emissions. It ensures strict compliance with the most aggressive global indoor air quality and occupational health regulations.
2. Non-Corrosive Neutral Cure: The benign acetone byproduct causes absolutely no corrosion to sensitive

# Technical Data Sheet



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metals (copper, brass, silver) or alkaline substrates (concrete, marble), making it perfectly suited for electronic potting and delicate construction joints.

3. **Fast Skin-Over & Low Dirt Pick-up:** Acetone evaporates exponentially faster than heavy oxime byproducts, allowing the sealant surface to skin over rapidly. This fast drying severely reduces airborne dirt pick-up on freshly applied joints.

4. **Exceptional In-Can Stability:** Exhibits profound stability when compounded in anhydrous systems. It functions as an aggressive hydroxyl scavenger, consuming trace moisture to definitively prevent premature gelation and extend cartridge shelf life.

## **Applications:**

Silfluo LS-VIPS is strictly engineered for high-performance, eco-friendly reactive polymer systems:

1. **Neutral Enoxy RTV Silicone Sealants:** The primary crosslinking agent in the manufacturing of MEKO-free, de-acetone silicone sealants. It is frequently formulated synergistically with specialized tin-free organic catalysts (such as Silfluo LS-GCF) to produce ultra-premium, fast-curing architectural and sanitary elastomers.

2. **Electronic Conformal Coatings & Potting:** The absolute material of choice for moisture-curing encapsulants protecting sensitive PCBs and microprocessors, where zero-corrosion and high dielectric stability are strictly mandated.

3. **Moisture Scavenger & End-Capper:** Utilized as a highly efficient chemical desiccant during polymer compounding, and as a reactive chain-extender for synthesizing custom alkoxy/enoxy-terminated prepolymers.

## **Packing**

In 25kg pail, 200kg drum and 1000kg IBC.

## **Safety and Storage**

Keep in a cool, strictly dry, and well-ventilated environment.

Ensure all containers remain hermetically sealed under dry nitrogen until ready for use. The shelf life is a minimum of 12 months from the date of manufacture when stored at or below 25 ° C in tightly sealed, original unopened containers.