



## Silfluo LS-AT402

Ethyltriacetoxysilane (Liquid RTV Crosslinker)

### Description:

Silfluo LS-AT402 is Ethyltriacetoxysilane, an acetoxy-functional silane.

The molecule contains one ethyl group and three acetoxy groups attached to silicon.

The acetoxy groups hydrolyze under moisture-curing conditions and release acetic acid.

Supplied as liquid under normal storage conditions, unlike methyltriacetoxysilane which has crystallization tendency at lower temperatures.

Used alone or in blends with methyltriacetoxysilane to adjust crosslinker handling, crystallization tendency, cure behavior, and formulation processing.

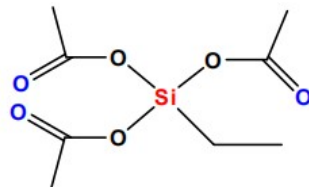
Used as crosslinking component in acetoxy-cure RTV silicone sealants, acetoxy crosslinker blends, and related silicone elastomer formulations.

Cure profile, storage stability, adhesion, elongation, and processing behavior require verification in the target formulation.

### Typical Physical Properties

Silfluo Code:	LS-AT402
Chemical Name:	Ethyltriacetoxysilane
Synonyms	(Triacetoxyl)ethylsilane
CAS No. :	17689-77-9
EINECS No. :	241-677-4
Molecular Formula:	C <sub>8</sub> H <sub>14</sub> O <sub>6</sub> Si
Molecular Weight:	234.28
Appearance:	Colorless to light yellow transparent liquid
Monomer content wt%:	90.0%min.
Density (25°C, g/cm <sup>3</sup> ):	1.140
Refractive Index (n <sub>25.D</sub> ):	1.4120-1.4150
Boiling Point:	107°C(at 12 mmHg)
Flash Point:	106°C Closed Cup

Chemical Structure:



### Applications:

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1 / 2

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# Technical Data Sheet



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## 1. Acetoxy-cure RTV silicone sealants

Used as crosslinking component in one-component acetoxy-cure RTV silicone sealants including sanitary, window, glazing, and general-purpose construction systems. Verify skin-over time, through-cure, modulus, elongation, adhesion, and storage stability in the target formulation.

## 2. Acetoxy crosslinker blends

Blended with methyltriacetoxysilane or other acetoxy silanes to adjust liquid handling, crystallization tendency, viscosity, and processing behavior. Determine blend ratio per storage temperature, production conditions, and sealant performance requirements.

## 3. Liquid crosslinker systems

Used where a liquid acetoxy silane component is required for storage, pumping, or dosing convenience. Verify compatibility with fillers, plasticizers, catalysts, and base polymers before scale-up.

## 4. Silicone elastomer formulation adjustment

Used as co-crosslinker in silicone elastomer formulations. Verify cure speed, by-product profile, mechanical properties, and aging behavior in the final system.

## 5. Acetoxy-functional intermediate use

Used as acetoxy-functional silane intermediate in synthesis or formulation development work. Verify reaction conditions, by-products, and final structure by analytical testing.

## Packing

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

## Safety and Storage

Store in a cool, dry, well-ventilated environment. Keep away from direct sunlight, heat, and open flames.

Hydrolysis releases acetic acid; corrosive to acid-sensitive metals and substrates. Assess VOC and workplace exposure per local regulations.

Keep in tightly sealed original containers; moisture contact causes premature hydrolysis.

Shelf life: 12 months minimum from manufacture date when stored at  $\leq 25^{\circ}$  C in original tightly sealed unopened containers.