



## Silfluo LS-AT102

Methyltriacetoxysilane (Standard Acetoxy Crosslinker)

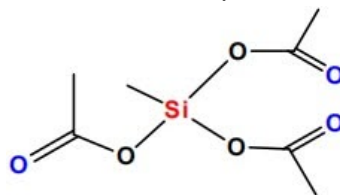
### Description:

Silfluo LS-AT102 is a highly reactive, moisture-sensitive organosilane chemically identified as Methyltriacetoxysilane (MTAS). It serves as the absolute foundational crosslinking agent for the global production of one-component (1K), acid-curing Room Temperature Vulcanizing (RTV) silicone sealants. In its pure form, LS-AT102 exists as a white crystalline solid at room temperature (melting point approx. 40°C) and requires melting prior to compounding. To eliminate the need for heated storage and pipeline tracing, it is extensively formulated into low-melting eutectic liquid blends with co-crosslinkers such as Silfluo LS-AT402 (Ethyltriacetoxysilane). These strategic combinations not only prevent crystallization but synergistically enhance the elongation, tensile strength, and unprimed adhesion of the final cured silicone rubber.

### Typical Physical Properties

Silfluo Code:	LS-AT102
Chemical Name:	Methyl triacetoxysilane
Synonyms	Methylsilanetriyl triacetate; Triacetoxymethylsilane
CAS No. :	4253-34-3
EINECS No. :	224-221-9
Molecular Formula:	C <sub>7</sub> H <sub>12</sub> O <sub>6</sub> Si
Molecular Weight:	220.25
Appearance:	White crystal at room temperature (clear liquid when melted)
Monomer Content wt%:	90.0%min.
Boiling Point:	87 - 88°C (at 9 mmHg)
Flash Point:	85°C Closed Cup

Chemical Structure:



### Features

1. Core Crosslinking Power: As the industry-standard acetoxy crosslinker, it provides extremely reliable, rapid hydrolysis upon exposure to atmospheric moisture, delivering fast skin-over times and efficient deep-section curing.

# Technical Data Sheet



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2. **Cost-Effective Baseline:** Offers unparalleled cost-efficiency for the large-scale manufacturing of standard sanitary, glazing, and general-purpose construction silicone sealants.
3. **Versatile Blending Foundation:** Serves as the primary active base for custom anti-crystallization blends. We offer precisely formulated mixtures (e.g., with LS-AT402 or LS-AT024) tailored to your specific plant climate and performance requirements.
4. **Robust Interfacial Adhesion:** Generates strong covalent bonds during the curing process, allowing the acidic sealant to achieve excellent primerless adhesion to glass, glazed ceramics, and anodized aluminum.

## **Applications:**

Silfluo LS-AT102 is engineered for the high-volume production of silicone elastomers:

1. **Acid-Cure RTV Silicone Sealants:** The primary crosslinking agent used in standard 1K acetoxy-curing sanitary and window sealants.
2. **Custom Anti-Crystallization Blends:** Can be supplied as a pure crystalline product or expertly pre-blended with ethyl/propyl triacetoxysilanes to provide a clear, permanently liquid crosslinker that prevents feed-line clogging in colder climates.
3. **Chemical Intermediate:** Utilized as a highly reactive silanating agent in the synthesis of complex organosilicon compounds and specialized pharmaceutical intermediates.

## **Packing**

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

## **Safety and Storage**

Keep in a cool, strictly dry, and well-ventilated environment, aggressively avoiding direct sunlight, heat, and open flames. Keep perfectly isolated from water, alcohols, strong acids, and alkalis. 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.