



## Silfluo LS-94322

Dual-Functional Siloxane Intermediate (Si-H & Methoxy)

### Description:

Silfluo LS-94322 is 1,1,3,3-Tetramethyl-1-[2-(trimethoxysilyl)ethyl]disiloxane, a dual-functional siloxane intermediate.

The molecule contains one silicon-hydride (Si - H) bond and one trimethoxysilyl group.

The Si - H group participates in hydrosilylation reactions with selected vinyl-, allyl-, or other olefin-functional compounds.

The trimethoxysilyl group hydrolyzes and participates in moisture-curing or surface bonding reactions under suitable conditions.

Supplied as a technical-grade isomer mixture.

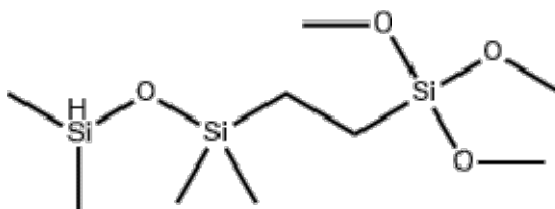
Used as reactive intermediate for preparing silane-functional polymers, silicone polyethers, modified siloxanes, surface modifiers, and selected moisture-curable materials.

Reaction behavior, conversion, by-product profile, storage stability, and application performance require verification under target synthesis and formulation conditions.

### Typical Physical Properties

Silfluo Code:	LS-94322
Chemical Name:	1,1,3,3-Tetramethyl-1-[2'-(Trimethoxysilyl)Ethyl]-Disiloxane
Synonyms	dimethylsilyloxy-dimethyl-(2-trimethoxysilylethyl)silane; Disiloxane, 1,1,3,3-tetramethyl-1-[2-(trimethoxysilyl)ethyl]-;
CAS No. :	137407-65-9
EINECS No. :	
Molecular Formula:	C <sub>9</sub> H <sub>26</sub> O <sub>4</sub> Si <sub>3</sub>
Molecular Weight:	282.56
Appearance:	Colorless or light yellow liquid
Purity (by GC, %):	> 65
Density (25°C, g.cm <sup>3</sup> ):	
Refractive Index (n <sub>25.D</sub> ):	
Boiling Point:	218°C
Flash Point:	125°C Closed Cup

Chemical Structure:



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## Applications:

### 1. Silicone polyether synthesis

Used in hydrosilylation reactions with allyl- or vinyl-functional polyethers to prepare silicone polyether intermediates or surfactant structures. Verify reaction conversion, catalyst compatibility, and residual Si - H by synthesis testing.

### 2. Silane-functional polymer synthesis

Used as reactive intermediate for introducing trimethoxysilyl functionality into vinyl- or allyl-functional polymer systems. Verify reaction conditions and final polymer properties in the target process.

### 3. Moisture-curable intermediates

Used in the preparation of moisture-curable silane-functional materials requiring both hydrosilylation reactivity and alkoxy silane functionality. Verify cure behavior and storage stability before scale-up.

### 4. Surface modifier synthesis

Used as intermediate for preparing organosilane surface modifiers for glass, mineral, silica, or metal oxide surfaces. Verify hydrophobicity, adhesion, and durability in the final formulation.

### 5. Silicone resin and siloxane modification

Used for modifying silicone resins, siloxane intermediates, or hybrid systems. Verify compatibility, viscosity, cure behavior, and final material properties by application testing.

## Packing

In 25kg pail and 200kg drum.

## Safety and Storage

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

The Si - H bond reacts with strong acids, alkalis, heavy metals, and moisture to generate flammable hydrogen gas ( $H_2$ ); isolate from these materials during storage and handling.

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