Technical Data Sheet

www.silfluosilicone.com

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.

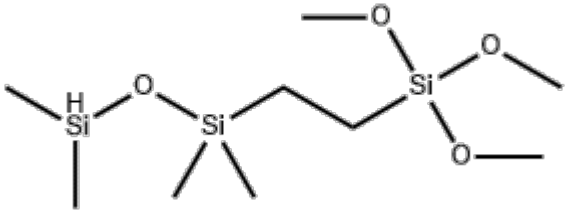
The molecule contains one silicon-hydride (Si－H) bond and one trimethoxysilyl group.

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:	$C_9H_{26}O_4Si_3$
Molecular Weight:	282.56
Appearance:	Colorless or light yellow liquid
Purity (by GC, %):	> 65
Density (25°C, g/cm³):	
Refractive Index (n25/D):	
Boiling Point:	218°C
Flash Point:	125°C Closed Cup

Chemical Structure:



Applications:

1. Silicone polyether synthesis

The offered information of this docs is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that our products are fully satisfactory for end use. Suggestions of use shall not be taken as inducements to infringe any patent. Please confirm with us prior to any problems.

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 alkoxysilane 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 ⩽25°C in original tightly sealed unopened containers.

The offered information of this docs is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that our products are fully satisfactory for end use. Suggestions of use shall not be taken as inducements to infringe any patent. Please confirm with us prior to any problems.