



## Silfluo LS-M513

Fluoroalkyl-Functional Silane

### Description

Silfluo LS-M513 is 1H,1H,2H,2H-Perfluorooctyltrimethoxysilane, a fluoroalkyl-functional trimethoxysilane. The molecule contains a C6 perfluorinated fluoroalkyl chain and three hydrolyzable methoxy groups on silicon.

The trimethoxysilyl group hydrolyzes and condenses with hydroxylated inorganic surfaces including glass, silica, ceramics, metal oxides, and mineral substrates.

The fluoroalkyl chain reduces surface energy and provides water- and oil-repellent character in selected coating systems.

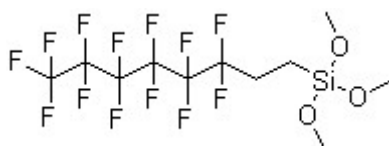
Used in anti-fingerprint, easy-to-clean, anti-smudge, release, and mineral surface treatment formulations.

Equivalent reference: Evonik Dynasylan F 8263.

### Typical Physical Properties

|                                    |  |
|------------------------------------|--|
| Silfluo Code:                      | LS-M513  |
| Chemical Name:                     | 1H,1H,2H,2H-Perfluorooctyltrimethoxysilane                     |
| Synonyms                           | Trimethoxy(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)silane |
| CAS No. :                          | 85857-16-5   |
| EINECS No. :                       | 288-657-1  |
| Molecular weight:                  | 468.28   |
| Appearance:                        | Colorless transparent liquid                                   |
| Purity (by GC, %)                  | 97.0 min   |
| Density (20°C, g/cm <sup>3</sup> ) | 1.453±0.0050   |
| Refractive Index (nD 25°C):        | 1.335±0.0050   |
| Boiling Point:                     | 88°C.13 mmHg   |
| Flash Point:                       | N.A  |

Chemical Structure:



### Applications

#### 1. Anti-fingerprint and easy-to-clean coatings

Used in AF and ETC coating formulations for glass, optical glass, ceramics, and metal oxide surfaces.

#### 2. Optical glass and display surface treatment

Used in surface treatment formulations for display glass, optical lenses, filters, and protective glass.

# Technical Data Sheet



[www.silfluosilicone.com](http://www.silfluosilicone.com)

## 3. Glass and ceramic easy-to-clean treatment

Used for low-surface-energy treatment of automotive glass, shower glass, sanitary ceramics, and silica-based surfaces.

## 4. Mineral surface protection

Used in mineral surface treatment systems for concrete, natural stone, and architectural substrates.

## 5. Release and anti-contamination coatings

Used in release, anti-smudge, and anti-contamination coating systems.

## Packaging

In 500g, 1000g fluorinated bottle, 25kg pail and 200kg drum.

## Safety and Storage

Keep in a cool and dry place and avoid storage in direct sunlight. Shelf life is min. 9 months. It is shipped as non-hazardous substance.