Technical Data Sheet

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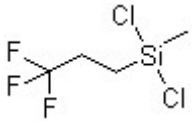
Silfluo LS-532

Fluoro Functional Organosilane

Description

Silfluo LS-532 is (3,3,3-Trifluoropropyl)dichloromethylsilane, a fluoroalkyl-functional dichlorosilane.
The molecule contains one trifluoropropyl group, one methyl group, and two chloro groups on silicon.
The dichlorosilyl group hydrolyzes rapidly, releasing HCl, and condenses to form siloxane linkages.
Used as synthetic intermediate for D3F (fluorosilicone cyclic trimer) production, fluorosilicone fluid synthesis, and fluorosilicone elastomer base preparation.

Typical Physical Properties

Silfluo Code:	LS-532
Chemical Name:	(3,3,3-Trifluoropropyl)dichloromethylsilane
Synonyms	
CAS No. :	675-62-7
EINECS No. :	211-623-4
Molecular Weight:	211.09
Appearance:	Colorless transparent liquid
Purity (by GC, %)	97.0 min
Density (ρ20°C, g/cm³)	1.28
Refractive Index (n25.D)	N.A
Boiling Point:	123°C
Flash Point:	15 °C Closed Cup
Chemical Structure:	

Applications

1. D3F (fluorosilicone cyclic trimer) synthesis
Used as precursor in the synthesis of 1,3,5-tris(3,3,3-trifluoropropyl)-1,3,5-trimethylcyclotrisiloxane (D3F . LS-651).
2. Fluorosilicone elastomer base preparation
Used as building block in the synthesis of fluorosilicone elastomer bases (FVMQ) for HCR and LSR applications.
3. Fluorosilicone fluid synthesis
Used in the synthesis of fluorosilicone fluids, lubricating oils, greases, and damping fluids.
4. Fluorinated polymer intermediates

Used as reactive intermediate for fluorinated organosilicon copolymers, defoamers, and low-surface-energy coating resins.

Packaging

In 500g, 1000g, 25kg pail, 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 hazardous substance.