



Silfluo LS-623

Vinyl-Functional Silazane & End-Capping Agent

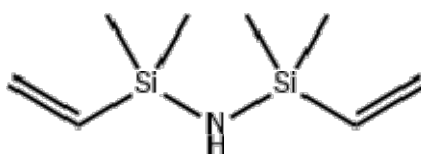
Description

Silfluo LS-623 is 1,3-Divinyltetramethyldisilazane (DVTMDZ . VMN), a divinyl-functional disilazane. The molecule contains two dimethylvinylsilyl groups connected by an Si–N–Si linkage. The silazane N–H bond reacts with silanol groups (Si–OH) on inorganic surfaces, silica fillers, or polymer chain ends without external catalyst, releasing ammonia as the sole byproduct. The terminal vinyl groups participate in platinum-catalyzed hydrosilylation in addition-cure silicone systems, enabling covalent incorporation into the crosslinked network. Used as vinyl-functional end-capping agent in silicone rubber and resin synthesis, adhesion promoter in microelectronics and semiconductor photoresist applications, and surface treatment agent for silica and inorganic fillers.

Typical Physical Properties

Silfluo Code:	LS-623
Chemical Name:	1,3-Divinyltetramethyldisilazane;
Synonyms	1,1,3,3-Tetramethyl-1,3-divinyldisilazane; 1,3-Divinyl-1,1,3,3-tetramethyldisilazane; DVTMDS; DVTMDZ; VMN
CAS No. :	7691-02-3
EINECS No. :	231-701-1
Molecular Formula:	C ₈ H ₁₉ NSi ₂
Molecular weight:	185.42
Appearance:	Colorless clear liquid
Purity (by GC, %):	96.0 min
Density (ρ _{20°C} , g/cm ³)	0.819
Refractive Index (n _{25.D})	1.437-1.439
Boiling Point:	160-161°C
Flash Point:	34°C(Closed Cup)

Chemical Structure:



Applications

1. Silicone rubber and resin end-capping

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Technical Data Sheet



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Used as vinyl-functional end-capping agent in LSR, HTV, and specialty vinyl silicone resin synthesis for molecular weight and network density control.

2. Microelectronics and photoresist adhesion

Used as adhesion promoter for negative photoresist on silicon wafer substrates in semiconductor manufacturing.

3. Inorganic filler surface treatment

Used to surface-treat silica, glass, and mineral fillers for hydrophobization and reactive vinyl incorporation into addition-cure composite systems.

Packaging

In 160kg drum and 800kg IBC

Safety and Storage

Keep in a cool and dry place and avoid storage in direct sunlight. Storage temperature: $-45^{\circ}\text{C}\sim 40^{\circ}\text{C}$; Shelf life is min. 12 months.