Technical Data Sheet

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Silfluo LS-622

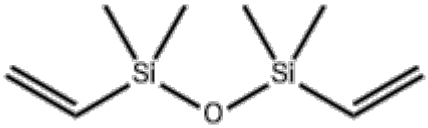
1,3-Divinyltetramethyldisiloxane

Description

Silfluo LS-622 is 1,3-Divinyltetramethyldisiloxane (Vi_2 MM), a linear disiloxane with vinyl groups at both terminal silicon atoms.

The molecule contains two dimethylvinylsilyl end groups connected by a single Si – O – Si linkage. The terminal vinyl groups participate in platinum-catalyzed hydrosilylation (addition cure) and coordinate with platinum to form Karstedt's catalyst complexes.
Used as pot-life inhibitor in two-part addition-cure silicone systems, as ligand precursor for Karstedt's catalyst synthesis, and as reactive modifier in vinyl silicone rubber and gel compounding.

Typical Physical Properties

Silfluo Code:	LS-622
Chemical Name:	Divinyltetramethyldisiloxane
Synonyms	Tetramethyl divinyl disiloxane; Vi2MM
CAS No. :	2627-95-4
EINECS No. :	220-099-6
Molecular Weight:	186.40
Appearance:	Colorless or light yellow transparent liquid
Purity (by GC, %)	99.0 min
The Vinyl Content:	≥ 27.5%
Density (ρ20°C, g/cm³)	0.818
Refractive Index (n25/D)	1.4080-1.4180
Boiling Point:	139°C
Flash Point:	24 °C Closed Cup
Water Solubility:	Insoluble
Chemical Structure:	

Applications

1. Addition-cure silicone inhibitor (RTV-2 / LSR)
Used as pot-life extender in two-part addition-cure silicone RTV and LSR formulations.
2. Karstedt's catalyst synthesis
Used as ligand precursor in the synthesis of platinum-divinyltetramethyldisiloxane (Karstedt's) catalyst.
3. Silicone rubber and gel compounding
Used as reactive modifier in addition-type silicone rubbers, vinyl silicone oils, and electronic encapsulation gels.

Inhibitor Use Guide

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For addition-cure RTV-2 and LSR systems:
Suggested starting level: 0.25–0.50 parts by weight per 100 parts base polymer (platinum catalyst-containing component)
Optimize loading against target pot life and cure profile under process conditions
Excess loading may delay or inhibit cure; verify full cure by compression set or Shore hardness testing.

Packaging

In 160kg plastic lining iron drum

Safety and Storage

Keep in a cool and dry place and avoid storage in direct sunlight. Shelf life is min. 12 months. It is shipped as hazardous substance.

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