



## Silfluo LS-624

Tetramethyltetravinylcyclotetrasiloxane (V4)

### Description

Silfluo LS-624 (V4) is 2,4,6,8-Tetravinyl-2,4,6,8-tetramethylcyclotetrasiloxane, a cyclic siloxane tetramer with four vinyl substituents.

The molecule contains four methylvinylsiloxyl repeat units on a cyclotetrasiloxane ring, giving a high vinyl group density relative to linear vinyl-functional siloxanes.

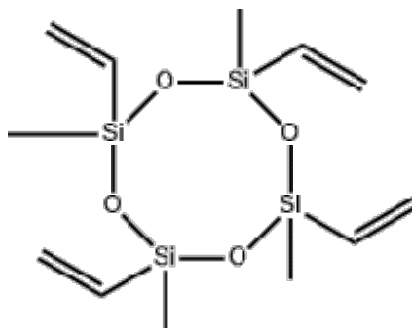
The cyclic ring structure and high vinyl content allow it to coordinate with platinum catalyst and function as a pot-life inhibitor in addition-cure systems; the inhibitor effect is temperature-dependent and reversible.

Used as inhibitor in addition-cure RTV-2 and LSR formulations, as reactive monomer for vinyl silicone oil and resin synthesis, and as crosslink density modifier in HTV.HCR rubber compounding.

### Typical Physical Properties

Silfluo Code:	LS-624
Chemical Name:	2,4,6,8-Tetravinyl-2,4,6,8-tetramethylcyclotetrasiloxane
Synonyms	Tetramethyltetravinylcyclotetrasiloxane; V4
CAS No. :	2554-06-5
EINECS No. :	219-863-1
Molecular Weight:	344.66
Appearance:	Colorless transparent liquid
Purity (by GC, %):	98.0 min
Vinyl Content:	≥30%
Density ( $\rho_{25^{\circ}\text{C}}$ , g/cm <sup>3</sup> )	0.997
Refractive Index ( $n_{25.D}$ )	1.4300~1.4400
Boiling Point:	224-224.5 °C
Flash Point:	99 °C Closed Cup
Water Solubility:	Insoluble

Chemical Structure:



# Technical Data Sheet



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## Applications

### 1. Addition-cure inhibitor (RTV-2 . LSR)

Used as pot-life extender in two-part addition-cure silicone RTV and LSR formulations where low-volatility inhibitor is required.

### 2. HTV . HCR silicone rubber compounding

Used as reactive additive to increase vinyl group density and crosslink density in methyl vinyl silicone rubber compounds.

### 3. Vinyl silicone oil and resin synthesis

Used as reactive monomer for introducing distributed vinyl functionality into silicone oils, gums, and specialty resins.

### 4. Flame retardant polyolefin compounds

Used as synergistic additive in halogen-free flame-retardant polyolefin formulations.

Property	LS-622 (Vi <sub>2</sub> MM)	LS-624 (V4)
Structure	Linear disiloxane	Cyclic tetrasiloxane
Vinyl groups per molecule	2	4
Boiling point	139°C	224–224.5°C
Flash point	24°C	99°C
Volatility during cure	Volatilizes during elevated-temperature cure	Low volatility; remains in network
Inhibitor character	Volatile inhibitor	Non-volatile inhibitor / reactive monomer
Primary use	Short pot-life control; Karstedt precursor	Extended pot-life; crosslink density modifier

## Packaging

In 25L pail, 200L drum and 1000L IBC

## 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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