



Silfluo LS-M13

Phenyl Methyl Dimethoxy Silane

Description

Silfluo LS-M13 is Dimethoxymethylphenylsilane, a bifunctional phenyl-functional dimethoxysilane.

The molecule contains one phenyl group, one methyl group, and two hydrolyzable methoxy groups on silicon.

The difunctional methoxy structure enables linear chain extension and controlled condensation without introducing trifunctional crosslinking sites.

The phenyl group raises refractive index and thermal stability; the methyl group contributes chain flexibility and hydrophobic character in derived siloxane structures.

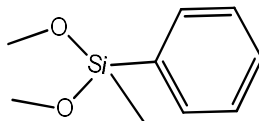
Used as monomer and reactive intermediate for phenyl silicone fluid, optical resin, and PVMQ elastomer synthesis, and as hydrophobic surface modifier in high-temperature composite systems.

Performance equivalent to Dow Z-2588.

Typical Physical Properties

Silfluo Code:	LS-M13
Chemical Name:	Dimethoxymethylphenylsilane
Synonyms	Methyl-phenyl-dimethoxysilane
CAS No. :	3027-21-2
EINECS No. :	221-192-4
Molecular Weight:	182.29
Appearance:	Colorless transparent liquid
Density ($\rho_{20^{\circ}\text{C}}$, g/cm ³)	0.980~1.000
Refractive Index (n _{25.D})	1.4720~1.4820
Purity:	98% min

Chemical Structure:



Applications

1. Phenyl silicone fluid and PVMQ synthesis

Used as monomer and reactive intermediate for phenyl silicone fluids, gels, damping fluids, and PVMQ elastomer bases.

2. High-RI LED and optical encapsulant synthesis

Used as RI-raising intermediate in high-refractive-index silicone encapsulant formulations for LED and micro-LED packaging.

Technical Data Sheet



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3. Inorganic filler and surface modification

Used as thermally stable hydrophobic modifier for inorganic substrates, fillers, and pigments in high-temperature composite systems.

4. Cosmetic-grade phenyl silicone fluids

Used as monomer for cosmetic-grade phenyl silicone fluid synthesis for personal care formulations.

Packaging

In 20kg pail, 200kg drum and 1000kg IBC

Safety and Storage

Keep away from heat and open flame. When stored at or below 25°C in the original unopened containers, this product has a usable life of 24 months from the date of production (200L drum)