



Silfluo LS-AMS

Allyl Functional Silane (Reactive Intermediate)

Description

Silfluo LS-AMS is an allyl-functional silane, chemically identified as allyltrimethoxysilane.

The molecule contains one reactive allyl group and one hydrolyzable trimethoxysilyl group.

The allyl group participates in hydrosilylation, allylation, and free-radical copolymerization.

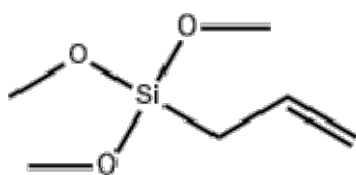
The trimethoxysilyl group hydrolyzes in the presence of moisture to form silanols, which condense with hydroxylated inorganic surfaces.

It functions as a reactive intermediate, allylation reagent, and adhesion promoter.

Typical Physical Properties

Silfluo Code:	LS-AMS
Chemical Name:	Allyltrimethoxysilane
Synonyms	Trimethoxy-2-propenylsilane
CAS No. :	2551-83-9
EINECS No. :	219-855-8
Molecular Formula:	C ₆ H ₁₄ O ₃ Si
Molecular Weight:	162.26
Appearance:	Colorless transparent liquid
Purity (by GC, %)	97.0 min
Density (ρ _{20°C} , g/cm ³)	0.914
Refractive Index (n _{25.D})	1.405
Boiling Point:	111°C
Flash Point:	31.6 °C Closed Cup

Chemical Structure:



Applications

1. Organic Synthesis & Pharmaceutical Intermediates: Acts as a highly efficient allylation reagent for carbonyl compounds (aldehydes, ketones) and imines, facilitating the synthesis of homoallylic alcohols and amines in complex organic synthesis routes.
2. Vinyl-Addition Silicone Systems: Serves as a critical adhesion promoter in platinum-cured (vinyl-addition) silicone elastomers and gels, significantly improving unprimed adhesion to difficult substrates without interfering with the hydrosilylation curing mechanism.
3. Polymerization & Polyolefin Modification: Utilized as a reactive comonomer or grafting silane in polyolefin

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Technical Data Sheet



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manufacturing, enabling the crosslinking of polyethylene (PE) and enhancing the mechanical and thermal stability of the polymer matrix.

4. **Microparticle & Nanomaterial Surface Treatment:** Employed to functionalize inorganic microparticles and fillers, introducing reactive allyl groups to the surface to improve dispersion and chemical bonding within unsaturated organic resin matrices.

Packaging

In 25L pail, 200L drum.

Safety and Storage

Keep in a cool and dry place and avoid storage in direct sunlight. Shelf life is min.9 months.