

Silfluo® Customized Silanes

Made to your structure and specification

Nanjing Silfluo New Material Co., Ltd.

Silfluo

www.silfluosilicone.com

CUSTOM SYNTHESIS

Many of the materials we make are not listed in our catalogue. Our in-house synthesis laboratory takes on custom organosilicon and fluorosilicone materials, from a first sample to production quantities. Send us a structure, a CAS number or a description of what you need.



A clear answer on every request

Our technical team evaluates each request and tells you plainly:

Feasible	We confirm that it can be made and quote specification, price and lead time.
Not feasible	If it cannot be done, we tell you so.
Uncertain	If the outcome is uncertain, we tell you before the project starts.

From laboratory sample to tonnes

Sample
Laboratory trial

Most small custom trials are made in our laboratory: at the first stage most customers need samples, not production quantities.

›

Up to 1 t
Laboratory reactors

Once your sample test is approved, our laboratory reactors can produce up to 1 tonne.

›

Over 1 t
Factory production

Larger volumes are transferred to our factory.

New organosilicon and fluorosilicone materials

We especially welcome inquiries for new organosilicon and fluorosilicone materials. If a product is not in our catalogue, ask us: many of the materials we can make are not listed.

WORKING WITH US

Please send us

- ✓ Structure, chemical name or CAS number
- ✓ Required purity or specification
- ✓ Application or end use
- ✓ Quantity: sample size and expected volume
- ✓ Packaging and target date

Order quantities

Any quantity
Standard products

Grades we already make have no quantity limit: small orders such as 100 g are welcome.

1 kg recommended
Custom products

For many custom products we recommend 1 kg: every separate run costs about the same, so 100 g costs almost as much as 1 kg.

The 1 kg recommendation, payment in advance and refund apply to custom products only.

Payment and refund for custom products

Every custom order is paid in advance, because a product made to one customer's requirements often cannot be sold to a second customer. If a product we have agreed to make does not meet the requirements when it leaves our laboratory, we refund your payment promptly.

How a custom project works

01
Your request

Structure or CAS number, specification, application and quantity.

02
Evaluation

Feasible, not feasible or uncertain: a clear answer with price and lead time.

03
Sample

Paid in advance; laboratory sample with COA. Prompt refund if it does not meet the agreed requirements.

04
Supply

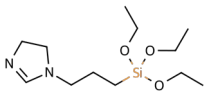
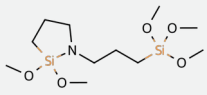
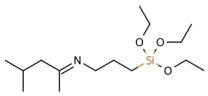
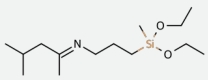
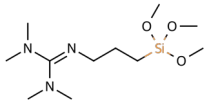
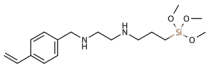
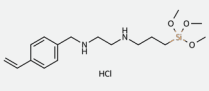
Up to 1 t from laboratory reactors, larger volumes from our factory; TDS, SDS and COA.

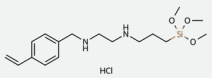
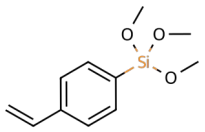
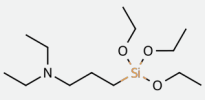
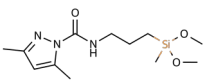
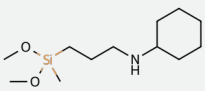
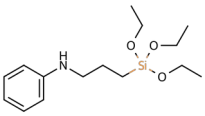
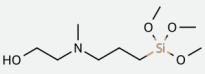
Send us your structures or requirements at any time.

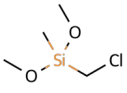
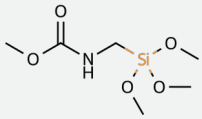
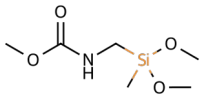
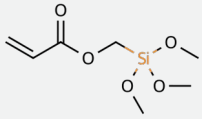
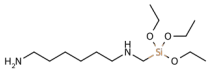
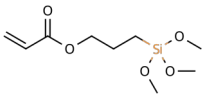
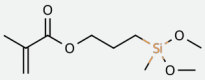
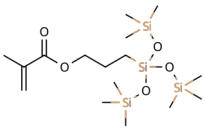
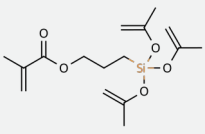
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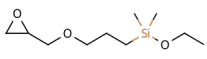
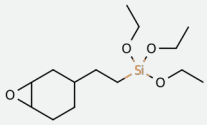
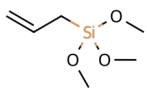
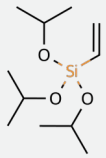
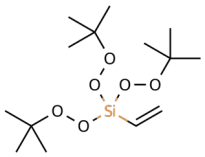
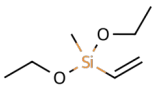
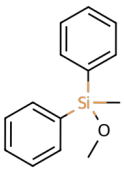
CUSTOMIZED SILANES

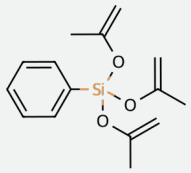
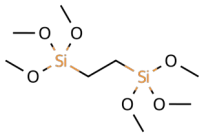
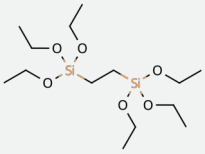
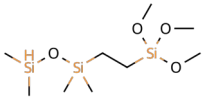
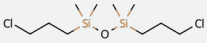
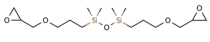
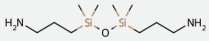
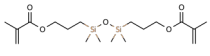
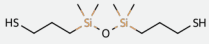
The grades below are made on request. Other structures, alkoxy groups, purities, active contents and packaging can be discussed.

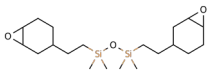
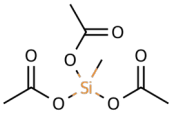
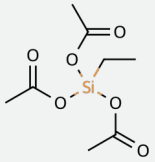
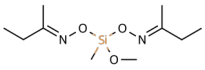
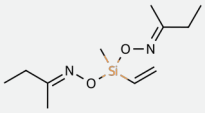
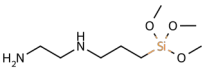
Grade	Chemical name	CAS	Main uses	Structure
01	**AMINO, IMINO AND GUANIDINO SILANES**			
LS-AS32	[3-(triethoxysilyl)propyl]-4,5-dihydroimidazole	58068-97-6	Imidazoline silane for epoxy adhesives, RTV sealants and metal primers.	
LS-AS213	2,2-Dimethoxy-1-[3-(trimethoxysilyl)propyl]-1-aza-2-silacyclopentane	109084-60-8	Ring-opening silane end-capper and adhesion promoter for RTV silicones, SMP and polyurethane sealants.	
LS-AS332	(1,3-Dimethylbutylidene)aminopropyltriethoxysilane	116229-43-7	Latent aminosilane adhesion promoter for 1K polyurethane and epoxy adhesives, sealants and primers.	
LS-AS312	(1,3-Dimethylbutylidene)aminopropylmethyldiethoxysilane	–	Ketimine latent aminosilane that releases the amine with moisture; used in 1K PU and epoxy sealants and adhesives.	
LS-GCF	1,1,3,3-Tetramethyl-2-(3-trimethoxysilylpropyl)guanidine	69709-01-9	Metal-free organobase silane for enoxy and neutral RTV silicones and adhesives.	
LS-B6224	Partially hydrolyzed N-(vinylbenzyl)-2-aminoethyl-3-aminopropyltrimethoxysilane	–	Low-chloride, pre-hydrolyzed vinylbenzyl amino silane in methanol for fiberglass sizing, glass fabric finishing and PCB/CCL laminates.	
LS-B632	N-(Vinylbenzyl)-2-aminoethyl-3-aminopropyltrimethoxysilane	171869-89-9	Neutral, low-chloride vinylbenzyl amino silane, 40% in methanol, for glass fiber treatment, silica fillers and PCB/CCL laminates.	
LS-B6032	N-(Vinylbenzyl)-2-aminoethyl-3-aminopropyltrimethoxysilane hydrochloride	34937-00-3	Cationic vinylbenzyl amino silane hydrochloride, 40% in methanol, for glass fiber and silica filler treatment, PCB/CCL laminates and composites.	

Grade	Chemical name	CAS	Main uses	Structure
LS-B6132	Hydrolyzed vinylbenzyl amino silane	–	Hydrolyzed form of vinylbenzyl amino silane hydrochloride, supplied in solvents, for glass fiber treatment in PCB laminates and composites.	
LS-B6269	High-purity vinylbenzyl amino silane hydrochloride	34937-00-3	High-purity grade, 40% in methanol, for coupling epoxy resins to glass and other inorganic surfaces.	
LS-B1403	p-Styryltrimethoxysilane	18001-13-3	Styryl silane, solvent-free, for silica filler treatment in low Dk/Df copper clad laminates based on PPO, BMI and hydrocarbon resins.	
LS-2232	N,N-Diethyl-3-aminopropyltriethoxysilane	10049-42-0	Tertiary amino silane without N–H groups, for surface modification of glass, silica and fillers and as an adhesion promoter.	
LS-IM83	3,5-Dimethyl-N-(3-(dimethoxymethylsilyl)propyl)-1H-pyrazole-1-carboxamide	–	Pyrazole-blocked isocyanate silane: releases the isocyanate group on heating, for heat-curing coatings, adhesives and adhesion promotion.	
LS-AH121	3-(N-Cyclohexylamino)propylmethyldimethoxysilane	120218-28-2	Cyclohexylamino silane with two methoxy groups for amino silicone emulsions; adhesion promoter and crosslinker in elastomers, coatings, inks, adhesives and sealants.	
LS-PA330	N-[3-(Triethoxysilyl)propyl]aniline	–	N-phenyl amino silane, ethoxy type, for filler treatment and adhesion promotion in epoxy, phenolic and polyimide resins and in sealants.	
LS-MA111	N-(Hydroxyethyl)-N-methylaminopropyltrimethoxysilane	330457-46-0	Tertiary amino silane with a hydroxyethyl group that can react with isocyanates and epoxies; adhesion promoter and coupling agent for polyurethane and epoxy systems.	
LS-PEEM31-50	Trimethoxysilylpropyl modified polyethylenimine, 50% in isopropanol	75132-84-2	Polymeric amino silane with many amino and trimethoxysilyl groups; primer and coupling agent for glass, metals and fillers.	
LS-POSS	Octa(3-aminopropyl)silsesquioxane (aminopropyl POSS)	150380-11-3	Cage silsesquioxane with eight aminopropyl groups; nanoscale building block and curing agent for epoxy and polyimide hybrid materials.	

Grade	Chemical name	CAS	Main uses	Structure
02	**ALPHA (α) SILANES**			
LS-8121	Chloromethyl(methyl)dimethoxysilane	2212-11-5	Alpha-silane intermediate for alpha-functional silanes, modified siloxanes and grafting.	
LS-AM31	(Methoxycarbonylaminomethyl)trimethoxysilane	23432-64-6	Alpha-carbamate silane water scavenger for SMP, SPUR and PU sealants and coatings.	
LS-AM121	[(Methylcarbamato)methyl]dimethoxymethylsilane	23432-65-7	Water scavenger and chain extender for low-modulus SMP, SPUR and polyurethane sealants.	
LS-MA131	Acryloyloxymethyltrimethoxysilane	21134-38-3	Alpha-acrylate silane for UV/EB coatings, EPDM cable compounds and composites.	
LS-AH13	(6-Aminohexyl)aminomethyltriethoxysilane	15129-36-9	Flexible alpha-diamino silane for UV-curable, epoxy and filler treatment uses.	
03	**(METH)ACRYLOXY SILANES**			
LS-M304	Acryloxypropyltrimethoxysilane	4369-14-6	Acrylic silane coupling agent for UV/EB coatings, fiber-optic coatings and composites.	
LS-ME121	3-Methacryloxypropylmethyldimethoxysilane	14513-34-9	Methacrylic silane with two methoxy groups for glass-reinforced polyester, synthetic marble, mineral-filled composites and acrylics.	
LS-OP594	3-[Tris(trimethylsiloxy)silyl]propyl methacrylate	17096-07-0	TRIS methacrylate monomer for silicone hydrogels and fouling-release coatings.	
LS-MTIS	Methacryloxypropyltri(isopropenyloxy)silane	78051-94-2	UV/moisture dual-cure silane for coatings, adhesives and enoxy RTV silicones.	

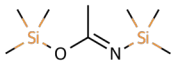
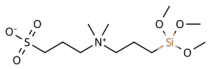
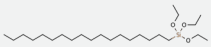
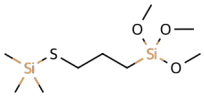
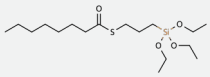
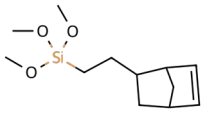
Grade	Chemical name	CAS	Main uses	Structure
04	**EPOXY SILANES**			
LS-GLYDME	(Glycidyloxy)propyldimethylethoxysilane	17963-04-1	Mono-alkoxy epoxy silane for surface silanization, filler treatment and epoxies.	
LS-EH232	2-(3,4-Epoxycyclohexyl)ethyltriethoxysilane	10217-34-2	Cycloaliphatic epoxy silane, ethoxy type: fast in cationic and UV curing, low yellowing; for UV inks and coatings, filled composites, adhesives and electronic encapsulation.	
05	**VINYL AND ALLYL SILANES**			
LS-AMS	Allyltrimethoxysilane	2551-83-9	Allyl silane for allylation reactions, Pt-cure silicone adhesion, polyolefin grafting and fillers.	
LS-VI33	Vinyltriisopropoxysilane	18023-33-1	Slow-hydrolyzing vinyl silane for 1K waterborne acrylic latices, paints and wood coatings.	
LS-VTPS	Vinyltris(tert-butylperoxy)silane	15188-09-7	Supplied 40% in toluene; bonds peroxide-cured fluoroelastomer and polyacrylate rubber to metal.	
LS-VSF25	Vinyl silane compound (vinyltrimethoxysilane + catalyst)	–	Ready-to-use blend of vinyltrimethoxysilane and catalyst for one-step silane crosslinking of polyethylene, e.g. in power cables.	
LS-V120	Vinylmethyldiethoxysilane	5507-44-8	Difunctional vinyl silane with two ethoxy groups for vinyl-functional silicone polymers and as a coupling agent in polymer synthesis.	
06	**PHENYL SILANES**			
LS-M121	Methyldiphenylmethoxysilane	18407-48-2	Monofunctional end-capper for high-RI phenyl silicone resins, phenyl fluids and phenyl rubber.	

Grade	Chemical name	CAS	Main uses	Structure
LS-PHIPS	Phenyltriisopropenoxysilane	52301-18-5	Acetone-releasing crosslinker for neutral-cure RTV silicone sealants and potting.	
07	**BIS-SILANES AND SILOXANES**			
LS-D312	1,2-Bis(trimethoxysilyl)ethane	18406-41-2	Bis-silyl crosslinker for Cr-free metal pretreatment, sol-gel coatings and sealants.	
LS-D322	1,2-Bis(triethoxysilyl)ethane	16068-37-4	Bis-silane crosslinker for Cr-free metal pretreatment, sol-gel coatings and sealants.	
LS-94322	1,1,3,3-Tetramethyl-1-[2'-(Trimethoxysilyl)Ethyl]-Disiloxane	137407-65-9	Si–H functional hydrosilylation intermediate for silicone polyethers and silane-functional polymers.	
LS-O832	1,3-Bis(3-chloropropyl)tetramethyldisiloxane	18132-72-4	Chloropropyl-terminated disiloxane; end-capper for chloropropyl silicones and intermediate for other functional siloxanes.	
LS-613	1,3-Bis(3-glycidoxypropyl)-1,1,3,3-tetramethyldisiloxane	126-80-7	Epoxy-terminated disiloxane: builds a flexible Si–O–Si segment into epoxy resins for electronic encapsulation, structural adhesives, coatings and epoxy silicones.	
LS-OA22	1,3-Bis(3-aminopropyl)-1,1,3,3-tetramethyldisiloxane	2469-55-8	Aminopropyl-terminated disiloxane: flexibilizing hardener for epoxy resins and end-capper for aminopropyl-terminated silicones.	
LS-OM22	1,3-Bis(3-methacryloxypropyl)tetramethyldisiloxane	18547-93-8	Methacryloxy-terminated disiloxane; end-capper for methacrylate silicones and flexible crosslinking monomer for UV and radical curing.	
LS-OS22	1,3-Bis(3-mercaptopropyl)-1,1,3,3-tetramethyldisiloxane	18001-52-0	Mercaptopropyl-terminated disiloxane; end-capper for mercapto silicones and reactive monomer for thiol-ene curing.	

Grade	Chemical name	CAS	Main uses	Structure
LS-OE42	1,3-Bis[2-(3,4-epoxycyclohexyl)ethyl]-1,1,3,3-tetramethyldisiloxane	18724-32-8	Cycloaliphatic epoxy disiloxane for cationic UV-curable coatings and release layers, silicone-modified epoxy resins and conventionally cured epoxy systems.	
08	**CROSSLINKERS**			
LS-AT102	Methyltriacetoxysilane	4253-34-3	Acetoxy crosslinker for 1K acetoxy-cure RTV silicone sealants and liquid crosslinker blends.	
LS-AT402	Ethyltriacetoxysilane	17689-77-9	Liquid acetoxy crosslinker for acetoxy-cure RTV sealants and methyltriacetoxysilane blends.	
LS-MMOS	Methylmethoxybis(methyl ethyl ketoximino)silane	–	Hybrid oxime-alkoxy crosslinker for neutral-cure RTV silicone sealants and potting compounds.	
LS-MVOS	Vinylmethylbis(methylethylketoximino)silane	72721-10-9	Bis-oxime chain extender for low-modulus neutral RTV sealants and stress-relief potting.	
09	**SILANE OLIGOMERS**			
LS-O110	Amino Silane Oligomer	–	Waterborne amino silane oligomer; VOC-free adhesion promoter for waterborne coatings, glass fiber sizing, mineral wool and foundry binders.	
LS-O146	Aqueous diaminofunctional silane hydrolysate	–	Waterborne diamino silane oligomer; VOC-free adhesion promoter for waterborne coatings, MS and PU sealants, and fiber and filler sizing.	
LS-A112T	N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane, technical grade	1760-24-3*	Coupling agent and adhesion promoter for foundry binders, coatings, glass fiber and fillers.	
LS-OP200	Epoxy-functional siloxane oligomer	–	Low-VOC crosslinker and adhesion promoter for anti-corrosion primers, automotive finishes, adhesives and sealants.	

SILFLUO®
CUSTOMIZED SILANES

Grade	Chemical name	CAS	Main uses	Structure
LS-OP121	Oligomeric Methylphenyldimethoxysilane hydrolysate	–	Low-VOC intermediate for high-RI LED encapsulant resins, high-temperature coatings and filler treatment.	
LS-O9831	Oligomeric N-Octyltrimethoxysilane hydrolysate	–	Penetrating water repellent for concrete, brick and stone and a hydrophobic additive for exterior paints.	
LS-O9832	Oligomeric N-Octyltriethoxysilane hydrolysate	–	Low-volatility, ethanol-releasing water repellent for concrete, brick and stone; also used for filler treatment.	
LS-O6490	Methoxy-functional vinyl siloxane oligomer	–	Vinyl/methoxy oligomer for mineral-filled and peroxide-crosslinked (HFFR) cable compounds and filler treatment; releases less methanol than the monomer.	
LS-O6498	Ethoxy-functional vinyl siloxane oligomer	–	Vinyl/ethoxy oligomer for mineral-filled HFFR cable compounds, filler and pigment coating and dispersions; releases less ethanol than the monomer.	
LS-O6598	Ethoxy-functional vinyl/propyl siloxane oligomer	–	Oligomeric alternative to VTMOEO in mineral-filled, peroxide-crosslinked cable compounds; better electrical properties under moist conditions.	
LS-O2627	Water-based amino silane oligomer	–	VOC-free aqueous amino oligomer for mineral and glass fiber treatment, glass and metal primers and waterborne polymer systems.	
LS-O6296	Multifunctional silane copolymer	–	Alkoxy / secondary amino copolymer; adhesion promoter for 1K and 2K silicone, MS and polyurethane sealants and coatings, typically 0.5–1.5%.	
LS-O7270	Oligomeric methacryloxy silane	–	Methacryloxy silane oligomer for adhesion promotion and filler treatment in radical-curing resins; releases less methanol than the monomer.	
LS-O8260	Oligomeric epoxy silane	–	Epoxy silane oligomer; adhesion promoter and crosslinker for epoxy, polyurethane and waterborne coatings, adhesives and sealants.	

Grade	Chemical name	CAS	Main uses	Structure
LS-OS12	Oligomeric mercapto silane	–	Non-yellowing mercapto oligomer; adhesion promoter for transparent MS / SPUR sealants, RTV silicone sealants and industrial adhesives.	
LS-O111B	Secondary amino silane oligomer	–	Secondary amino silane oligomer; adhesion promoter for silicone, MS and polyurethane sealants and adhesives.	
10 OTHERS				
LS-BSA	N,O-Bis(trimethylsilyl)acetamide	10416-59-8	Silylating agent for GC/GC-MS derivatization and TMS protection in synthesis.	
LS-PEG20	[Methoxy(polyethyleneoxy)6-9]propyltrimethoxysilane	65994-07-2	PEG silane (6–9 EO); hydrophilic surface modifier for particles, glass and anti-fog coatings.	
LS-SB01	3-{[Dimethyl(3-trimethoxysilyl)propyl]ammonio} propane-1-sulfonate (sulfobetaine silane)	151778-80-2	Zwitterionic silane for hydrophilic, antifouling and protein-resistant surfaces on glass, silica and metal oxide particles.	
LS-91832	Octadecyltriethoxysilane	7399-00-0	Long-chain (C18) alkyl silane for hydrophobic treatment of fillers, pigments, glass and masonry and for self-assembled monolayers.	
LS-S3131	Trimethoxy[3-(trimethylsilylthio)propyl]silane	92568-84-8	Mercapto silane with a trimethylsilyl-protected thiol that is released on hydrolysis; for systems where a free mercapto group would react too early.	
LS-A599	3-Octanoylthiopropyltriethoxysilane	220727-26-4	Blocked mercapto silane: the octanoyl group keeps it low in odor and inert to tin and platinum catalysts until it hydrolyses; adhesion promoter for SPUR sealants, e.g. windshield glass frit and automotive topcoats.	
LS-BHE231	[(Bicycloheptenyl)ethyl]trimethoxysilane	68323-30-8	Norbornenyl silane: the strained double bond takes part in thiol-ene, ROMP and hydrosilylation; for coupling to cyclic olefin polymers and UV-curing systems.	

* CAS number of the main component. – : mixture, oligomer or hydrolysate without a single CAS number, or no CAS number listed.



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