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ORGANICS

# A Review of Organosilanes in Organic Chemistry

- Silyl Protecting and Derivatisation Reagents
- Organosilanes as Reducing Agents
- Silanes in Cross-coupling Chemistry
- Allylsilanes Used to Stabilize  $\alpha$ -Carbanions and  $\beta$ -Carbocations

# INTRODUCTION

Organosilanes have varied uses in organic chemistry from the most frequently employed protecting groups to intermediates in organic synthesis. The Acros Organics portfolio of organosilanes is continuously expanding to meet your chemistry needs. In this brochure you will find an overview of four of the most important applications of organosilanes:

- Silyl Protecting and Derivatisation Reagents<sup>1,2</sup>
- Organosilanes as Reducing Agents<sup>3</sup>
- Silanes in Cross-coupling Chemistry<sup>4</sup>
- Allylsilanes Used to Stabilize  $\alpha$ -Carbanions and  $\beta$ -Carbocations<sup>4</sup>

## Silyl Protecting and Derivatisation Reagents

Silicon protecting groups are probably the most frequently employed of all protecting groups, and modern natural product synthesis is inconceivable without them.<sup>5</sup> Silylating agents are mostly used to protect alcohols and phenols, but have also found application in the protection of amines, carboxylic acids, amides, thiols and alkynes.

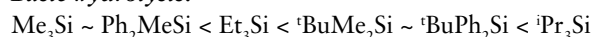
By varying the substituents attached to silicon, the steric and electronic characteristics of the protecting group can be finely tuned, allowing a wide variety of both reaction and deprotection conditions. The leaving group also plays an important role in the reactivity and use of silylating reagents. Whilst chlorotrimethylsilane [product code: 42643] liberates hydrogen chloride on reaction, other TMS protection reagents liberate neutral or basic by-products. For example, *N,N*-Diethyl-1,1,1-trimethylsilylamine [15569] is a moderately strong silylating reagent liberating volatile diethylamine, while allyltrimethylsilane [19699], used to protect acids and thiols, generates gaseous propene as a by-product.<sup>6</sup>

The high affinity of silicon for fluorine is particularly advantageous, permitting deprotection of the silyl group with tetrabutylammonium fluoride [20195], a reagent that is compatible with a wide range of orthogonal protecting groups and other functional groups. The actual stability of a silyl protecting group depends on the pH of the medium, the exact reaction conditions, steric and electronic effects but, in general terms, the stability to hydrolysis increases:<sup>7</sup>

### Acidic hydrolysis:

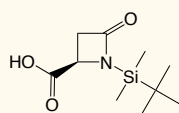


### Basic hydrolysis:

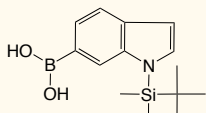


Acros Organics have recently introduced a range of commonly used silyl chlorides (shown in the table on page 3) in AcroSeal<sup>®</sup> packaging, allowing easy handling and excellent stability of these moisture-sensitive protecting reagents.

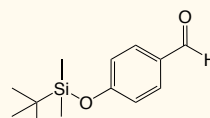
The Acros Organics range includes many synthetic intermediates with silyl protection already in place. A selection of typical products is illustrated here. For more examples, see the product list at the end of this brochure or visit [www.acros.com](http://www.acros.com).



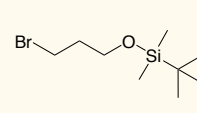
[33784]



[43024]



[42817]



[43869]

### References

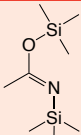
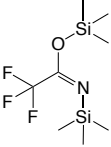
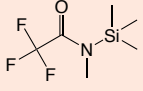

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## A selection of Organochlorosilane Protecting Group Reagents available from the AcroSeal® range:

Group	Reagent	Code	Notes
Me <sub>3</sub> Si (TMS)	Chlorotrimethylsilane	42643	Used for the protection of alcohols, alkynes, amines and amino acids, carboxylic acids, phenols, ketones. Most easily cleaved of all silyl protecting groups in acid and base.
	Chlorotrimethylsilane, 1M solution in THF	38161	
	Chlorotrimethylsilane, 1M solution in DCM	38160	
Et <sub>3</sub> Si (TES)	Chlorotriethylsilane, 1M solution in THF	43325	Used for the protection of alcohols. TES ethers can be selectively deprotected in the presence of TBDMS ethers <sup>8</sup> .
<sup>t</sup> BuMe <sub>2</sub> Si (TBDMS)	<i>tert</i> -Butyldimethylsilyl chloride, 1.0M in DCM	36910	Used for the protection of alcohols, amines, thiols, lactams and carboxylic acids. Reaction with an alcohol requires a catalyst such as imidazole. [20094] is a convenient, ready-to-use DMF solution of TBDMSCl (0.5M) and imidazole (1.0M).
	<i>tert</i> -Butyldimethylsilyl chloride, 50 wt.% in PhMe	43311	
	BDCS, silylation reagent	20094	
<sup>t</sup> BuPh <sub>2</sub> Si (TBDPS)	<i>tert</i> -Butylchlorodiphenylsilane	43092	Greater steric demand. Therefore, more stable than TBDMS to acid hydrolysis (>100x). Primary alcohols are protected in the presence of secondary alcohols.
Ph <sub>2</sub> Si	Dichlorophenylsilane	43089	Used for the protection of diols, diamines and hydroxyacids. <sup>9</sup>

Derivatisation of a compound by reaction with a silylating agent is of particular utility in gas chromatography (GC) analysis. Molecules containing functional groups such as carboxylic acid, hydroxyl, amine, thiol and phosphate, which may be difficult to analyse by GC, can be readily converted into silylated derivatives that are generally less polar, more volatile and have greater thermal stability and are, therefore, more suitable for GC analysis.

### Typical Derivatisation Reagents from Acros Organics

Derivatisation Reagent	Code	Structure	Notes
N,O-Bis(trimethylsilyl)acetamide	15646		Commonly used derivatisation agents for acidic functional groups; i.e., alcohols, enols, amines, amides, carboxylic acids, amino acids, phenols, steroids, biogenic amines, alkaloids, phosphites and thiols. <sup>2, 10</sup>
N,O-Bis(trimethylsilyl)trifluoroacetamide	16800		One of the most potent silylation reagents used today. It has two advantages over BSA in GC analysis: i) The by-products and the reagent itself are highly volatile so they cause minimal interference with the GC analysis. ii) The presence of fluorine atoms results in less fouling of flame-ionisation detectors. [38932] contains 1% TMSCl, which increases the silylating power of the mixture for analytical derivatisations.
N,O-Bis(trimethylsilyl)trifluoroacetamide, with 1% TMSCl	38932		
N,O-Bis(trimethylsilyl)trifluoroacetamide, packaged in 1 ml ampoules	32120		
N-Methyl-N-(trimethylsilyl)trifluoroacetamide (MSTFA)	22158		MSTFA and its by-product are even more volatile than BSTFA and its by-product. Used in the analysis of steroids <sup>11</sup> , fatty acids <sup>12</sup> and nucleic acids by GC/MS.
Dichloromethylsilane AcroSeal®	43088		Used for derivatisation of diols, diamines and hydroxyacids.

#### References

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# Organosilanes as Reducing Agents

Organosilanes with one or more hydrogen atoms attached to silicon have the ability to behave as either ionic or free-radical reducing agents. Changing the groups attached to silicon modifies the character of the Si-H bond and allows the organosilane reagent to be tailored to give a particular type of reduction. Substrates that can form a stable carbenium ion intermediate such as alcohols, olefins, esters, lactones, aldehydes, ketones, acetals, ketals and imines are reduced with reagents like triethylsilane [21292], which is used in combination with an acid. Triphenylsilane [16482] and tris(trimethylsilyl)silane [29106] are used for free radical reductions, in place of tri-*n*-butyltin hydride.<sup>13</sup> The breadth of reductions possible with organosilanes is illustrated below. These organosilanes and the reduction by-products are generally safer and more easily handled and disposed of than traditional reducing agents such as lithium aluminium hydride and tributyltin hydride.

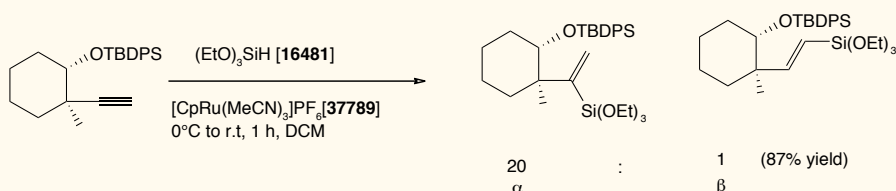
The ease of reduction of various functional groups with silyl hydrides, available from Acros Organics

Silyl hydride Acros Organics Code	Cl <sub>3</sub> SiH 17460	Et <sub>3</sub> SiH 21292	Ph <sub>3</sub> SiH 16482	Ph <sub>2</sub> SiH <sub>2</sub> 32977	PhSiH <sub>3</sub> 29169	TMS <sub>3</sub> SiH 29106	PMHS <sup>(a)</sup> 17509
R <sub>2</sub> C=CR <sub>2</sub> → R <sub>2</sub> CH-CHR <sub>2</sub>		++		++	+		
R-OH → R-H		+	++	+			
R-X → R-H		+	++			++	
RCHO → RCH <sub>2</sub> OH		++					
R <sub>2</sub> CO → R <sub>2</sub> CHOH		++	+	+			+
RCO <sub>2</sub> R → RCH <sub>2</sub> OH		++		++			+
RCOCl → RCH <sub>2</sub> OH		++					
RCHO → RCH <sub>2</sub> OR							
RR'C(OR') <sub>2</sub> → RR'CH <sub>2</sub> OR		++	++				
RR'C=NHR" → RR'CHNHR"		+		++			+
RCN → RCH <sub>2</sub> NH <sub>2</sub>		++					
RCH <sub>2</sub> NR' <sub>2</sub> → RCH <sub>2</sub> OH		+		+			
ArNO <sub>2</sub> → ArNH <sub>2</sub>							+
R <sub>3</sub> P=O → R <sub>3</sub> P	+		+	++			+

<sup>(a)</sup> Polymethylhydrosiloxane, a high molecular weight reducing agent

## Hydrosilylation

Alkynes, alkenes and ketones undergo free radical hydrosilylation with silyl hydrides. The regio- and stereocontrol is dependant upon the substrate substituents, the organosilane and the particular catalyst used. For example, α-vinylsilanes have been prepared in high yield by reaction of triethoxysilane [16481] with a range of terminal alkynes in the presence of [CpRu(MeCN)<sub>3</sub>]PF<sub>6</sub> [37789].<sup>14</sup>



### References

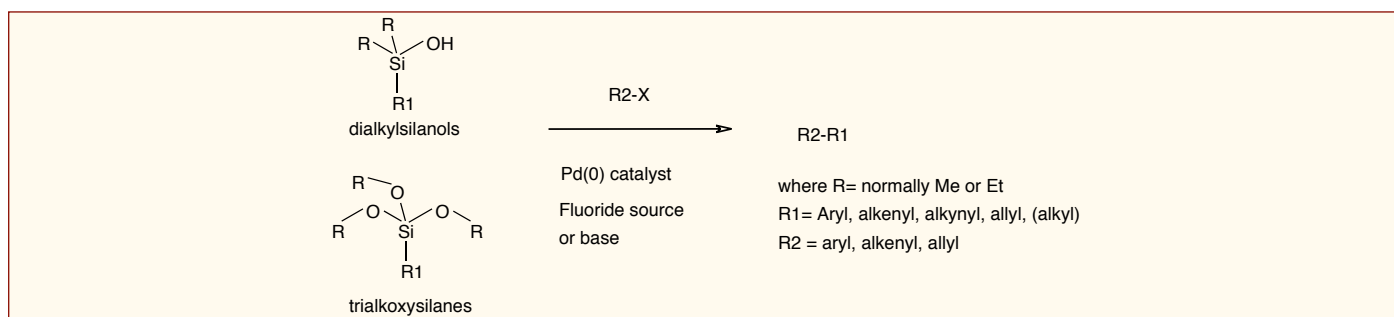
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# Silanes in Cross-coupling Chemistry

Many metal-catalysed coupling methods have been developed for the formation of carbon-carbon bonds, utilising a range of organometallic species. Examples include Stille (Sn), Kumada (Mg), Suzuki (B) and Negishi (Zn) coupling. For an overview of these methodologies, the Acros Organics “Palladium Catalysed Coupling Chemistry” brochure is available at [www.acros.com](http://www.acros.com).

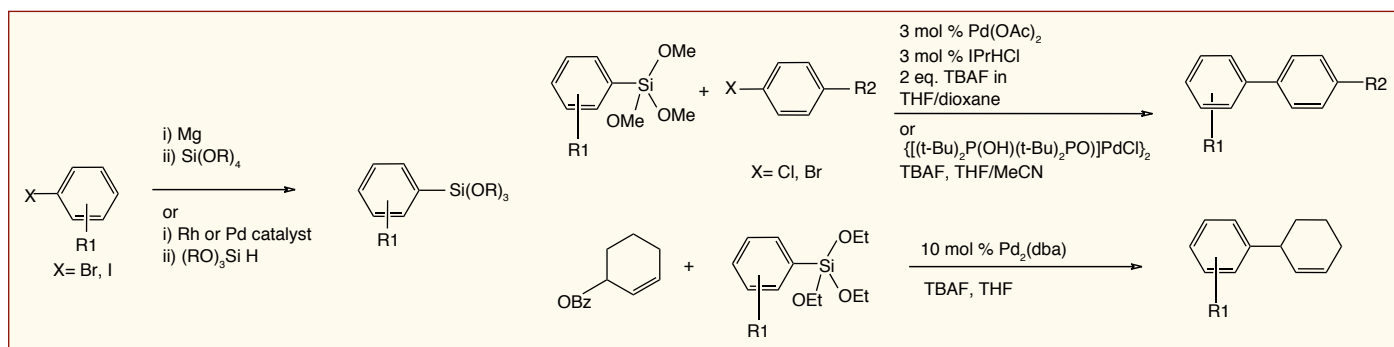
The Hiyama coupling is typically a palladium- or nickel-catalysed coupling of organohalides or triflates with organosilanes.<sup>15</sup> The use of organosilanes in place of organometallic reagents (Mg, Zn and Sn) is often advantageous due to their low toxicity, chemical stability and ease of handling.

The coupling reaction is promoted by activation of the organosilane with a fluoride source, converting the silicon compound  $\text{RSiR}'_3$  to a  $\text{RSi-R}'_3\text{F}$  intermediate that is more amenable to transmetalation. Alternatively, a strong base can be used. Many organosilicon compounds can undergo coupling reactions, including dialkylsilanols<sup>16</sup> and trialkoxysilanes.



## Trialkoxysilanes

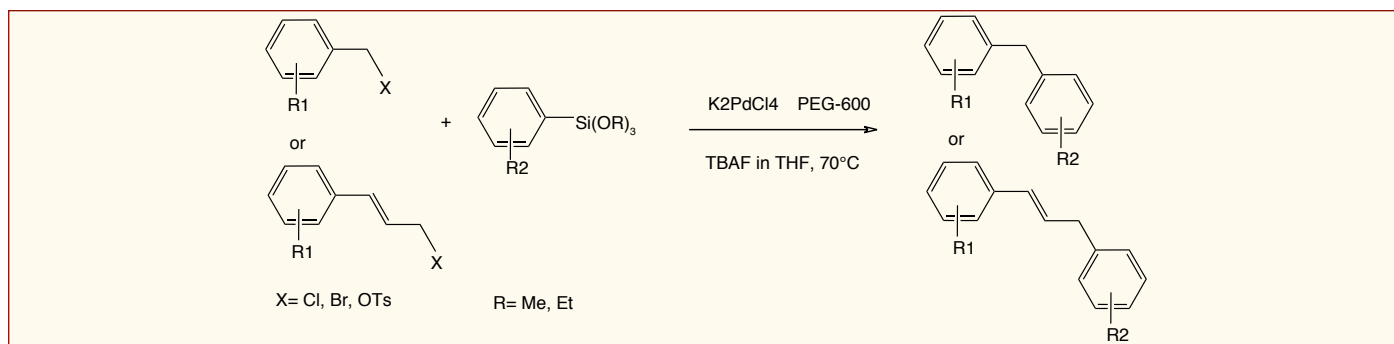
Trimethoxy and triethoxysilanes are readily prepared from an organometallic species<sup>17, 18</sup> by reaction with tetramethyl orthosilicate [20382] and tetraethyl orthosilicate [42036] or by transition metal-catalysed silylation<sup>19</sup> with triethoxysilane [16481]. Organotrimethoxysilanes have been successfully applied as coupling reagents in the Hiyama coupling reaction with aryl chlorides and bromides, vinyl halides, aryl triflates, and allylic benzoates.<sup>20, 21, 22</sup>



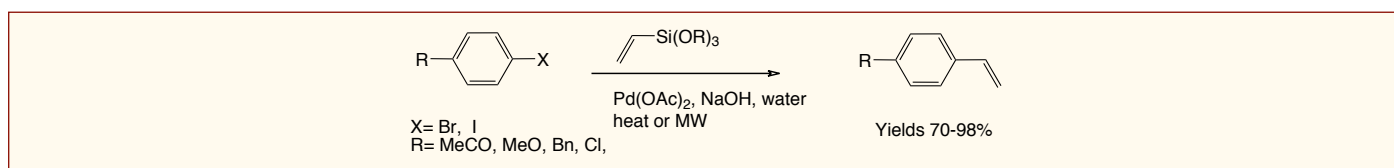
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Recently, an efficient Hiyama coupling reaction between benzylic halides and aryltrialkoxysilanes using Pd nanoparticles has been developed, accommodating many functional groups and leading to the synthesis of a diverse range of diarylmethanes in high yield.<sup>23</sup> No expensive ligands are required to generate the catalyst, which is prepared by stirring  $K_2PdCl_4$  [19512] with PEG-600 [19224] for 15 minutes at 70°C. PEG acts as both a stabilizing and reducing agent.

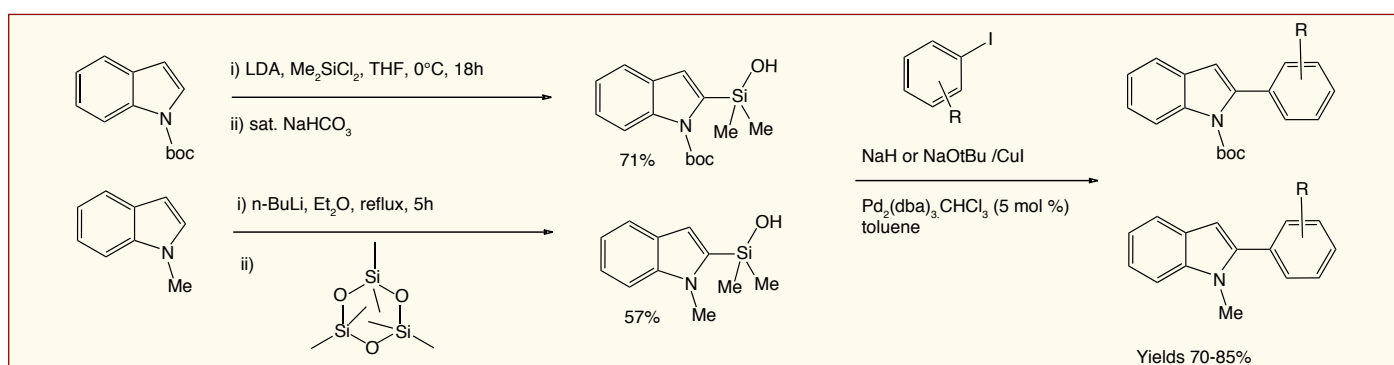


Styrenes have been prepared in high yield by reaction of vinyltrimethoxysilane [43306], triethoxyvinylsilane [17461] and vinyl tris(2-methoxyethoxy)silane [25051] with aryl halides in aqueous sodium hydroxide, under conventional or microwave heating. Ligandless  $Pd(OAc)_2$  [19518] acts as an efficient source of Pd nanoparticles at low loading (0.1 mol % Pd).<sup>24</sup>



## Dimethylsilanols

Aryl and alkenyl dimethylsilanols can be easily synthesised by direct metallation of heterocycles or by metal-halogen exchange of aryl or alkenyl halides, followed by quenching with hexamethylcyclotrisiloxane [21646] or dichlorodimethylsilane [11331]. Denmark *et al.*<sup>25</sup> have developed methodology to allow the efficient cross coupling of hetroaryldimethylsilanols with aryl iodides in the presence of  $Pd_2(dba)_3 \cdot CHCl_3$  [36934]. Cross coupling of Boc-protected dimethyl(2-indolyl)silanol is particularly difficult due to decreased nucleophilicity at C-2. They found that silanolates generated *in-situ* from NaO<sup>t</sup>Bu undergo Pd-catalysed cross coupling with aryl iodides in the presence of CuI, while silanolates generated with NaH couple without an additive. The methodology was extended to thiophene, furan and pyrrole nucleophiles with both electron-deficient and electron-rich aryl iodides.



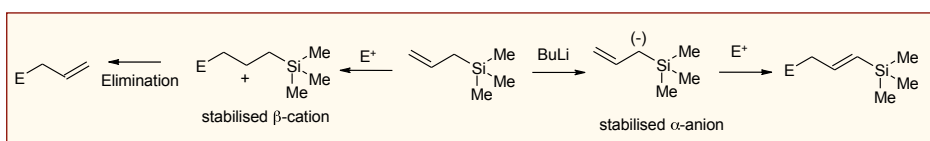
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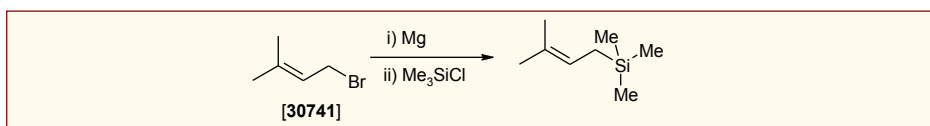
# Allylsilanes Used to Stabilize $\alpha$ -Carbanions and $\beta$ -Carbocations

Silicon, being more electropositive than carbon, exerts a considerable electronic effect on carbons  $\alpha$  and  $\beta$  to it in an organic molecule. Silanes that are activated in the  $\alpha$  position can form stabilised carbanions, enhancing their reactivity to metallation, and subsequent reaction with an electrophile. Stabilisation of a carbocation on the  $\beta$  carbon allows electrophilic substitution in vinyl, aryl, allyl or alkynyl silanes, with the silyl group acting as a leaving group.

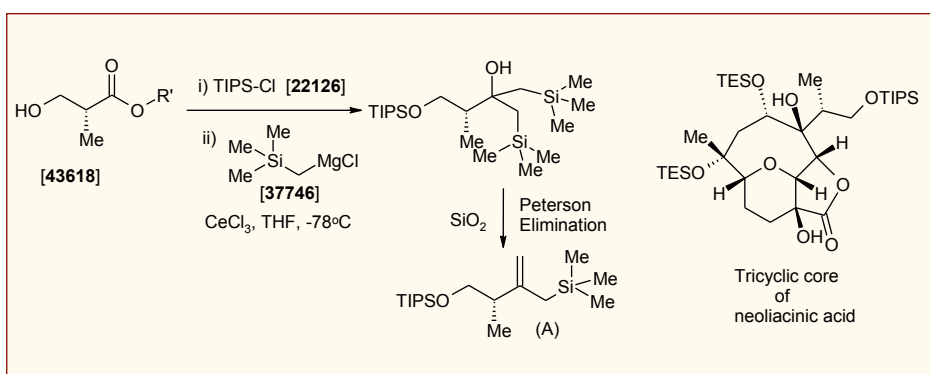
Allylsilanes are useful intermediates in organic synthesis as the silicon is capable of stabilising both  $\alpha$ -anionic charges and  $\beta$ -cationic charges.<sup>26</sup>



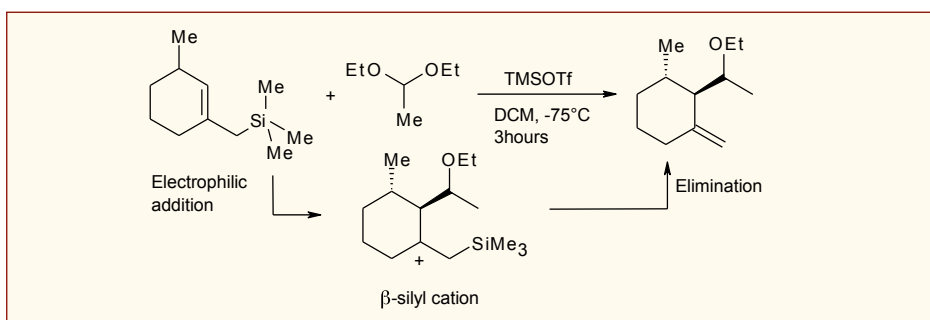
Simple allylsilanes are made directly by silylation of a metal allyl species, but other approaches are used to construct more complex systems.



In the synthesis of the tricyclic core of neoliacinic acid,<sup>27</sup> the allylsilane (A) was required for the introduction of the side chain. Treatment of the ester [43618] with an organocerium reagent, generated by reaction of trimethylsilylmethylmagnesium chloride [37746] with anhydrous cerium (III) chloride, resulted in a double Grignard addition of  $TMSCH_2^-$ . After workup, exposure of the tertiary alcohol to silica gel facilitated the Peterson elimination, providing the required allylsilane with predictable regiochemistry.



Allylsilanes react regioselectively with a variety of electrophiles in the presence of a suitable Lewis acid to give allylic products. The TMSOTf [20944]-catalysed reaction of (3-methylcyclohex-1-enylmethyl)trimethylsilane [33904] with 1,1-diethoxyethane [10222] gives racemic allylic product in 79% yield.<sup>28</sup>



## References

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## Selected Across Organics Organosilanes

Product Name	Product Code	CASNo	Purity
Allyl(chloromethyl)dimethylsilane sum of isomers	394630010, 1 g; 394630050, 5 g	75422-66-1	90%
Allyldichloromethylsilane	338190250, 25 mL	1873-92-3	97%
Allyl(diisopropyl)(4-methoxyphenyl)silane	MO01086DA, 1 g	216107-40-3	95%
Allyltrichlorosilane	313220050, 5 g; 313220250, 25 g	107-37-9	95%
Allyltrimethoxysilane	388940050, 5 mL; 388940250, 25 mL	2551-83-9	97+%
Allyltrimethylsilane	196990100, 10 mL; 196990500, 50 mL; 196992500, 250 mL	762-72-1	99%
Allyltrimethylsilane	349990100, 10 mL; 349990500, 50 mL	762-72-1	97%
3-[2-(2-Aminoethylamino)ethylamino]propyl-trimethoxysilane tech.	346170250, 25 mL; 346171000, 100 mL; 346175000, 500 mL	35141-30-1	
3-Aminopropyltrimethylmethoxysilane	336600010, 1 g; 336600050, 5 g	31024-26-7	97%
3-Aminopropyltriethoxysilane	151080050, 5 g; 151081000, 100 g; 151085000, 500 g; 151080025, 2.5 kg	919-30-2	99%
3-Aminopropyltriethoxysilane AcroSeal®	430941000, 100 mL; 430948000, 800 mL	919-30-2	99%
3-Aminopropyltrimethoxysilane	313251000, 100 mL; 313255000, 500 mL	13822-56-5	95%
Azidotrimethylsilane	167930100, 10 mL; 167930500, 50 mL; 167932500, 250 mL	4648-54-8	97%
BDCS silylation reagent, AcroSeal®	200941000, 100 mL; 200948000, 800 mL	1185092-02-7	
N-Benzyl-3-(tert-butyltrimethylsilyloxy)methyl)piperid-4-one	MO07912DA, 1 g; MO07912DE, 5 g	325486-37-1	95%
Benzyloxytrimethylsilane	391990050, 5 g; 391990250, 25 g; 391991000, 100 g	14642-79-6	94%
1,2-Bis(chlorodimethylsilyl)ethane	313260050, 5 g; 313260250, 25 g	13528-93-3	96%
Bis(1H-inden-1-yl)dimethylsilane	388480010, 1 g; 388480050, 5 g	18666-26-7	97%
Bis(2,3,4,5-tetramethyl-2,4-cyclopentadiene-1-yl)dimethylsilane	388901000, 100 mg; 388905000, 500 mg	89597-05-7	95+%
1,1-Bis(trichlorosilylmethyl)ethylene	338650010, 1 g; 338650050, 5 g	78948-04-6	
N,O-Bis(trimethylsilyl)acetamide	156460250, 25 mL; 156461000, 100 mL; 156460011, 1 L	10416-59-8	95%
Bis(trimethylsilyl)acetylene	182010100, 10 g; 182010500, 50 g	14630-40-1	99%
Bis(trimethylsilyl)-N-tert-butylacetaldimine	330960010, 1 g	127896-07-5	95+%
alpha,alpha-Bis(trimethylsilyl)-tert-butylketimine	331165000, 500 mg	147227-26-7	
Bis(trimethylsilyl)carbodiimide	375130010, 1 g; 375130050, 5 g; 375130250, 25 g	1000-70-0	98%
1,4-Bis[(trimethylsilyl)ethynyl]benzene	390620010, 1 g; 390620050, 5 g	17938-13-5	98%
N,O-Bis(trimethylsilyl)hydroxylamine	215980010, 1 g; 215980050, 5 g; 215980250, 25 g	22737-37-7	97%
Bis(trimethylsilyl) malonate	313300100, 10 g; 313300500, 50 g	18457-04-0	98%
1,1-Bis(trimethylsilyloxy)-1,3-butadiene	331050010, 1 g	87121-06-0	
1,1-Bis(trimethylsilyloxy)-3,3-dimethyl-1-butene	331025000, 500 mg	31469-23-5	
1,2-Bis(trimethylsilyloxy)ethane	209580100, 10 g; 209580500, 50 g	7381-30-8	98%
beta,beta-Bis(trimethylsilyloxy)styrene	330950010, 1 g	31491-21-1	
Bis(trimethylsilyl)sulfide	367370010, 1 g; 367370050, 5 g; 367370250, 25 g	3385-94-2	95%
Bis(trimethylsilyl)telluride	291660050, 5 mL	4551-16-0	98%
N,O-Bis(trimethylsilyl)trifluoroacetamide	168000050, 5 g; 168000250, 25 g; 168001000, 100 g; 168005000, 500 g	25561-30-2	98+%
N,O-Bis(trimethylsilyl)trifluoroacetamide packaged in 1 ml ampoules	321200100, 10 mL	25561-30-2	98%
N,O-Bis(trimethylsilyl)trifluoroacetamide with 1% trimethylsilyl chloride	389320250, 25 g; 389321000, 100 g; 389325000, 500 g	25561-30-2	
N-BOC-2-trimethylsilylindole	390330010, 1 g; 390330050, 5 g	146337-49-7	97+%
(2-Bromoethoxy)-tert-butyltrimethylsilane	399830010, 1 g; 399830100, 10 g	86864-60-0	99%
(Bromomethyl)chlorodimethylsilane	313320050, 5 g; 313320250, 25 g	16532-02-8	95%
(4-Bromophenoxy)-tert-butyltrimethylsilane	427090050, 5 mL; 427090250, 25 mL	67963-68-2	97%



Product Name	Product Code	CASNo	Purity
(3-Bromophenoxy)triisopropylsilane	MO07899DA, 1 g	571202-87-4	97%
(3-Bromopropoxy)-tert-butyltrimethylsilane stabilized over sodium carbonate	438690010, 1 mL; 438690050, 5 mL; 438690250, 25 mL	89031-84-5	97%
Bromotriethylsilane	440280050, 5 mL; 440280250, 25 mL	1112-48-7	95%
4-Bromo-1-(triisopropylsilyl)-1H-indole	CC39510CB, 250 mg; CC39510DA, 1 g; CC39510DE, 5 g	412048-44-3	97%
5-Bromo-1-(triisopropylsilyl)-1H-indole	MO00980DA, 1 g; MO00980EA, 10 g	128564-66-9	97%
Bromotrimethylsilane	186650050, 5 g; 186650250, 25 g; 186651000, 100 g; 186655000, 500 g	2857-97-8	98%
Bromotrimethylsilane AcroSeal®	430751000, 100 mL	2857-97-8	98%
tert-Butylchlorodimethylsilane	183930050, 5 g; 183930250, 25 g; 183931000, 100 g; 183935000, 500 g	18162-48-6	98%
tert-Butylchlorodimethylsilane 1.0M solution in dichloromethane, AcroSeal®	369101000, 100 mL	18162-48-6	
tert-Butylchlorodiphenylsilane	187500100, 10 g; 187500500, 50 g; 187502500, 250 g	58479-61-1	98%
tert-Butylchlorodiphenylsilane AcroSeal®	430921000, 100 mL	58479-61-1	98%
n-Butyltrimethylchlorosilane	432260100, 10 mL; 432260500, 50 mL	1000-50-6	97+%
(tert-Butyltrimethylsiloxy)acetaldehyde	397510010, 1 g; 397510050, 5 g	102191-92-4	90%
(tert-Butyltrimethylsilyl)acetylene	381300010, 1 g; 381300050, 5 g	86318-61-8	97%
(4R)-N-(tert-Butyltrimethylsilyl)azetidin-2-one-4-carboxylic acid	337840010, 1 g; 337840050, 5 g	162856-35-1	99%
(4S)-N-(tert-Butyltrimethylsilyl)azetidin-2-one-4-carboxylic acid	337862500, 250 mg; 337860010, 1 g	82938-50-9	99%
tert-Butyltrimethylsilyl chloride 50 wt.% solution in toluene, AcroSeal®	433110000, 100 mL	18162-48-6	
1-(tert-Butyltrimethylsilyl)-1H-indol-6-ylboronic acid	430240010, 1 g	913835-60-6	97%
N-(tert-Butyltrimethylsilyl)-N-methyl-trifluoroacetamide	221540010, 1 g; 221540050, 5 g; 221540250, 25 g	77377-52-7	98%
4-[(tert-Butyltrimethylsilyloxy)benzaldehyde	428170010, 1 g	120743-99-9	97%
4-(tert-Butyltrimethylsilyloxy)cyclohexanone	426850010, 1 g; 426850050, 5 g	55145-45-4	97%
3-(tert-Butyltrimethylsilyloxy)phenylboronic acid	398340010, 1 g; 398340050, 5 g	261621-12-9	96+%
1-(tert-Butyltrimethylsilyloxy)-2-propanone	431230050, 5 mL; 431230250, 25 mL	74685-00-0	98%
tert-Butyltrimethylsilyl trifluoromethanesulfonate	209860050, 5 mL; 209860250, 25 mL	69739-34-0	98%
Butyltrichlorosilane	435600250, 25 mL	7521-80-4	99%
(3-Butynyloxy)trimethylsilane	390560010, 1 g; 390560050, 5 g	17869-75-9	98%
2-Carbomethoxyethyltrimethoxymethylsilane	336610010, 1 g; 336610050, 5 g	76301-03-6	
Chloro(chloromethyl)dimethylsilane AcroSeal®	434021000, 100 mL	1719-57-9	98%
Chlorodiethylisopropylsilane	435650250, 25 mL	107149-56-4	95+%
Chlorodiisopropylsilane	313440050, 5 g	2227-29-4	95%
Chlorodimethylethylsilane	313500050, 5 g; 313500250, 25 g	6917-76-6	97%
Chlorodimethylphenylsilane	151070050, 5 g; 151070250, 25 g; 151071000, 100 g	768-33-2	95%
Chlorodimethylsilane	162840100, 10 g; 162840500, 50 g; 162842500, 250 g	1066-35-9	96%
Chlorodimethylhexylsilane	408600050, 5 g; 408600250, 25 g; 408601000, 100 g	67373-56-2	95%
(Chloromethyl)trichlorosilane	320470050, 5 g; 320470250, 25 g	1558-25-4	95%
Chloromethyltrimethylsilane	194760250, 25 g; 194761000, 100 g	2344-80-1	98+%
(3-Chloropropyl)triethoxysilane	391890050, 5 g; 391890250, 25 g; 391890010, 1 kg	5089-70-3	97+%
(3-Chloropropyl)trimethoxysilane	137280250, 25 mL; 137281000, 100 mL; 137285000, 500 mL	2530-87-2	98+%
2-(4-Chlorosulfonylphenyl)ethyltrimethoxysilane 50% solution in dichloromethane	337470050, 5 g; 337470250, 25 g	126519-89-9	
2-(4-Chlorosulfonylphenyl)ethyltrimethoxysilane 50% solution in dichloromethane, AcroSeal®	428991000, 100 mL	126519-89-9	

Product Name	Product Code	CASNo	Purity
Chlorotriethylsilane	215940050, 5 mL; 215940250, 25 mL; 215941000, 100 mL; 215945000, 500 mL	994-30-9	99%
Chlorotriethylsilane 1M solution in THF, AcroSeal®	433251000, 100 mL	994-30-9	
Chlorotriisopropylsilane	221260100, 10 g; 221260500, 50 g; 221262500, 250 g	13154-24-0	97%
Chlorotriisopropylsilane	377350050, 5 g; 377350250, 25 g; 377351000, 100 g	13154-24-0	95%
Chlorotrimethylsilane	110120250, 25 mL; 110121000, 100 mL; 110122500, 250 mL; 110120010, 1 L	75-77-4	98%
Chlorotrimethylsilane AcroSeal®	426431000, 100 mL	75-77-4	98%
Chlorotrimethylsilane 1M solution in dichloromethane, AcroSeal®	381601000, 100 mL; 381608000, 800 mL	75-77-4	
Chlorotrimethylsilane 1M solution in THF, AcroSeal®	381611000, 100 mL; 381618000, 800 mL	75-77-4	
Chlorotriphenylsilane	151250250, 25 g; 151251000, 100 g	76-86-8	95%
Chlorotripropylsilane	313930050, 5 g; 313930250, 25 g	995-25-5	98%
3-Cyanopropylmethylchlorosilane	313380100, 10 mL; 313380500, 50 mL	18156-15-5	95%
Cyanopropylmethylchlorosilane	432250050, 5 mL; 432250250, 25 mL	1190-16-5	97%
3-Cyanopropyltrichlorosilane	277110250, 25 mL; 277111000, 100 mL	1071-27-8	97%
Cyclohexylmethylchlorosilane	432220100, 10 mL; 432220500, 50 mL	5578-42-7	97+%
Cyclopentadienyltrimethylsilane	387160010, 1 g; 387160050, 5 g	3559-74-8	
Cyclopropyl(trimethylsilyl)acetylene	387520010, 1 g; 387520050, 5 g	81166-84-9	97+%
Decyldimethylchlorosilane	432190050, 5 mL; 432190250, 25 mL	38051-57-9	97%
Diacetoxymethylsilane	426690250, 25 g	2182-66-3	95%
Diacetoxymethylsilane AcroSeal®	434011000, 100 mL	2182-66-3	98%
Di-tert-Butylchlorosilane	432900010, 1 g; 432900050, 5 g; 432900250, 25 g	56310-18-0	95%
Dichloro(chloromethyl)methylsilane	313370250, 25 g; 313371000, 100 g	1558-33-4	95%
Dichlorodiethylsilane	338100050, 5 g; 338100250, 25 g	1719-53-5	97%
Dichlorodimethylsilane	113310050, 5 mL; 113312500, 250 mL; 113310010, 1 L; 113310025, 2.5 L	75-78-5	99+%
Dichloromethylsilane AcroSeal®	430881000, 100 mL; 430888000, 800 mL	75-78-5	99+%
Dichlorodiphenylsilane	113341000, 100 mL; 113345000, 500 mL; 113340025, 2.5 L	80-10-4	97%
Dichlorophenylsilane AcroSeal®	430891000, 100 mL; 430898000, 800 mL	80-10-4	97%
Dichloromethylphenylsilane	147380100, 10 mL; 147381000, 100 mL; 147385000, 500 mL	149-74-6	98%
Dichloromethylsilane	147391000, 100 mL; 147395000, 500 mL; 147390025, 2.5 L	75-54-7	97%
Dichloromethylsilane AcroSeal®	430901000, 100 mL; 430908000, 800 mL	75-54-7	97%
Dichloromethylvinylsilane	147430100, 10 g; 147431000, 100 g; 147435000, 500 g; 147430025, 2.5 kg	124-70-9	97%
Dichlorophenylsilane	432340250, 25 mL	1631-84-1	95%
1,3-Dichloro-1,1,3,3-tetraisopropylidisiloxane	215280050, 5 mL; 215280250, 25 mL	69304-37-6	96%
Diethoxydimethylsilane	174631000, 100 mL; 174635000, 500 mL	78-62-6	97%
N,N-Diethyl-1,1,1-trimethylsilylamine	155690050, 5 g; 155690250, 25 g; 155691000, 100 g	996-50-9	98+%
Diiodosilane	388920010, 1 g; 388920050, 5 g	13760-02-6	
Diisopropylchlorosilane	432360050, 5 g; 432360250, 25 g	7751-38-4	97%
Dimethoxydimethylsilane AcroSeal®	351531000, 100 mL; 351530010, 1 L	1112-39-6	95%
(3,3-Dimethylcyclohex-1-enylmethyl)trimethylsilane	339000010, 1 g	150929-92-3	98%
Dimethyldi-2-thienylsilane	390370010, 1 g; 390370050, 5 g	17888-49-2	95+%
Dimethylethoxysilane	392000050, 5 g; 392000250, 25 g; 392001000, 100 g	14857-34-2	95%
Dimethylmethoxychlorosilane	432200100, 10 mL	1825-68-9	
Dimethyloctadecyl[3-(trimethoxysilyl)propyl]ammonium chloride 60% in methanol	338531000, 100 mL	27668-52-6	

Product Name	Product Code	CASNo	Purity
Dimethylphenylsilane	215930050, 5 g; 215930250, 25 g	766-77-8	98%
Dimethylphenylsilanol	390510010, 1 g; 390510050, 5 g	5272-18-4	97%
1,3-Dimethyl-1,1,3,3-tetra vinyl disiloxane	338500010, 1 g	16045-78-6	95%
Dimethyl (p-tolyl)silanol	390920010, 1 g; 390920050, 5 g	17920-15-9	95%
N,N-Dimethyltrimethylsilylamine	209970100, 10 mL; 209970500, 50 mL	2083-91-2	97%
Dimethylvinylchlorosilane	336730050, 5 g; 336730250, 25 g	1719-58-0	97%
2-(Diphenylphosphino)ethyltriethoxysilane	391860010, 1 g; 391860050, 5 g; 391860250, 25 g	18586-39-5	92%
Diphenylsilane	329770050, 5 g; 329770250, 25 g	775-12-2	97%
Diphenyltetramethyldisilane	387880010, 1 g	1145-98-8	97%
Divinyltetramethyldisiloxane	249210100, 10 g; 249210500, 50 g; 249212500, 250 g	2627-95-4	97%
Dodecyldimethylchlorosilane	432230250, 25 mL; 432231000, 100 mL	66604-31-7	97%
(1-Ethoxycyclopropoxy)trimethylsilane	368900050, 5 g; 368900250, 25 g; 368901000, 100 g	27374-25-0	99%
Ethoxytrimethylsilane	313820050, 5 g; 313820250, 25 g; 313821000, 100 g	1825-62-3	95%
Ethylmethyldichlorosilane	432890250, 25 mL	4525-44-4	97%
(Ethylthio)trimethylsilane	345000010, 1 g; 345000100, 10 g	5573-62-6	90%
Ethyltrichlorosilane AcroSeal®	313511000, 100 mL; 313510010, 1 L	115-21-9	99%
Ethyltrimethoxysilane AcroSeal®	433081000, 100 mL; 433080010, 1 L	5314-55-6	97%
Ethyl 3-(trimethylsilyl)propionate	381550010, 1 g; 381550050, 5 g; 381550250, 25 g	16205-84-8	99%
Fluorodimethylphenylsilane	382900010, 1 g; 382900050, 5 g	454-57-9	97%
Fluorodiphenylmethylsilane	382910010, 1 g; 382910050, 5 g	17739-53-6	97%
3-Glycidoxypropyltrimethoxysilane	216540050, 5 g; 216541000, 100 g; 216545000, 500 g; 216540025, 2.5 kg	2530-83-8	97%
Heptamethyldisilazane	215920500, 50 g	920-68-3	99%
Hexakis-6-(dimethyl-tert-butylsilyl)-alpha-cyclodextrin	298980010, 1 g	118646-79-0	96%
Hexamethylcyclotrisiloxane	216460250, 25 g; 216461000, 100 g	541-05-9	98%
Hexamethyldisilane	202690100, 10 mL; 202690500, 50 mL; 202692500, 250 mL	1450-14-2	98+%
1,1,1,3,3,3-Hexamethyldisilazane	120580100, 10 mL; 120581000, 100 mL; 120585000, 500 mL; 120580025, 2.5 L	999-97-3	98%
1,1,1,3,3,3-Hexamethyldisilazane AcroSeal®	430851000, 100 mL	999-97-3	98%
Hexamethyldisiloxane	194790100, 10 mL; 194791000, 100 mL; 194795000, 500 mL; 194790025, 2.5 L	107-46-0	98+%
1,1,3,3,5,5-Hexamethyltrisiloxane	337570050, 5 mL; 337570250, 25 mL	1189-93-1	97%
1,1,3,3,5,5-Hexamethyltrisiloxane AcroSeal®	433071000, 100 mL	1189-93-1	95+%
Hexaphenyldisilane	304620010, 1 g	1450-23-3	
(Iodomethyl)trimethylsilane	205090050, 5 mL; 205090250, 25 mL	4206-67-1	99%
Iodotrimethylsilane stabilized	187490050, 5 mL; 187490250, 25 mL; 187491000, 100 mL	16029-98-4	95-97%
Iodotrimethylsilane stabilized, AcroSeal®	426421000, 100 mL	16029-98-4	95-97%
Isobutyltrichlorosilane	338060050, 5 mL	18169-57-8	98%
(3-Isocyanatopropyl)triethoxysilane	391900250, 25 g; 391901000, 100 g	24801-88-5	95%
Isopropyldimethylchlorosilane	313570250, 25 g	3634-56-8	95%
Lithium bis(trimethylsilyl)amide	338140100, 10 g; 338140500, 50 g; 338142500, 250 g	4039-32-1	95%
Lithium bis(trimethylsilyl)amide 0.9M solution in methylcyclohexane, AcroSeal®	380231000, 100 mL; 380238000, 800 mL	4039-32-1	
Lithium bis(trimethylsilyl)amide 1.0M sol. in methyl tert-butyl ether, AcroSeal®	345671000, 100 mL; 345678000, 800 mL	4039-32-1	
Lithium bis(trimethylsilyl)amide 1M solution in THF/Ethylbenzene, AcroSeal®	347701000, 100 mL; 347708000, 800 mL	4039-32-1	

Product Name	Product Code	CASNo	Purity
Lithium trimethylsilanolate 1M solution in dichloromethane, AcroSeal®	428821000, 100 mL; 428828000, 800 mL	2004-14-0	
Lithium trimethylsilanolate 1M solution in THF, AcroSeal®	428811000, 100 mL; 428818000, 800 mL	2004-14-0	
Lithium (trimethylsilyl)acetylide 0.5M solution in THF, AcroSeal®	380651000, 100 mL; 380658000, 800 mL	54655-07-1	
(3-Mercaptopropyl)trimethoxysilane tech.	174650500, 50 g; 174652500, 250 g	4420-74-0	85%
Methoxy(4-methoxyphenyl)dimethylsilane	390450010, 1 g; 390450050, 5 g	62244-48-8	97%
N-(Methoxymethyl)-N-(trimethylsilylmethyl)benzylamine	344300050, 5 g; 344300250, 25 g	93102-05-7	96%
Methoxytrimethylsilane	392470250, 25 g; 392471000, 100 g; 392472500, 250 g	1825-61-2	96+%
1-Methoxy-3-(trimethylsilyloxy)-1,3-butadiene	199550050, 5 g	59414-23-2	90%
Methyl (S)-(-)-4-bromo-3-tert-butyltrimethylsilyloxybutanoate	414082500, 250 mg	101703-35-9	98%
Methyldiethoxysilane	392260050, 5 g; 392260250, 25 g; 392261000, 100 g	2031-62-1	97%
Methylphenylvinylsilane	336680050, 5 g	17878-39-6	97%
Methylpropyldichlorosilane	432880250, 25 mL	4518-94-9	97%
Methyltriallylsilane	304590010, 1 g	1112-91-0	97%
Methyltrichlorosilane	127930100, 10 mL; 127935000, 500 mL; 127930025, 2.5 L	75-79-6	98+%
Methyltriethoxysilane	174620250, 25 mL; 174622500, 250 mL	2031-67-6	98+%
Methyltrimethoxysilane	250540050, 5 mL; 250540500, 50 mL; 250542500, 250 mL; 250540010, 1 L	1185-55-3	97%
Methyltrimethoxysilane AcroSeal®	432641000, 100 mL; 432640010, 1 L	1185-55-3	97%
N-Methyl-N-(trimethylsilyl)acetamide	215950010, 1 g; 215950100, 10 g	7449-74-3	98%
Methyl (trimethylsilyl)acetate	215890050, 5 g	2916-76-9	98%
N-Methyl-N-(trimethylsilyl)trifluoroacetamide	221580050, 5 g; 221580250, 25 g; 221581000, 100 g	24589-78-4	97%
4-Nitrophenyl 2-(trimethylsilyl)ethyl carbonate	440070050, 5 g; 440070250, 25 g	80149-80-0	95%
Octadecyltrichlorosilane	147400250, 25 mL; 147401000, 100 mL; 147405000, 500 mL	112-04-9	95%
Octadecyltrimethoxysilane tech.	313600250, 25 mL; 313601000, 100 mL	3069-42-9	90%
Octamethylcyclotetrasiloxane	216470250, 25 g; 216471000, 100 g; 216475000, 500 g	556-67-2	98%
Octamethyltrisiloxane	216481000, 100 g	107-51-7	98%
Octylmethyldichlorosilane	255260050, 5 mL; 255260250, 25 mL	14799-93-0	97%
Octyltrichlorosilane	216501000, 100 g; 216505000, 500 g	5283-66-9	97%
n-Octyltriethoxysilane	338080250, 25 mL; 338081000, 100 mL	2943-75-1	97%
(Pentamethylcyclopentadien-1-yl)trimethylsilane	389040010, 1 g; 389040050, 5 g	87778-95-8	97%
1,1,3,5,5-Pentaphenyl-1,3,5-trimethyltrisiloxane	338615000, 500 mL	3390-61-2	
Pentyltrichlorosilane	433100500, 50 g	107-72-2	
Phenethyltrichlorosilane	432240010, 1 g	940-41-0	95%
Phenoxytrimethylsilane	388600050, 5 mL; 388600250, 25 mL	1529-17-5	97+%
Phenylsilane	291690050, 5 mL; 291690250, 25 mL; 291691000, 100 mL	694-53-1	97+%
Phenyltrichlorosilane	131000100, 10 mL; 131002500, 250 mL; 131000010, 1 L	98-13-5	95%
Phenyltriethoxysilane	174642500, 250 g; 174640010, 1 kg	780-69-8	98%
Phenyltrimethoxysilane	370640500, 50 mL; 370642500, 250 mL; 370640010, 1 L	2996-92-1	85%
Poly(dimethylsiloxane)	178442500, 250 g; 178445000, 500 g; 178440025, 2.5 kg	9016-00-6	
Polymethylhydrosiloxane	175091000, 100 g; 175095000, 500 g	9004-73-3	
Potassium bis(trimethylsilyl)amide 0.7M (15 wt.%) solution in toluene, AcroSeal®	418231000, 100 mL; 418238000, 800 mL	40949-94-8	
Potassium trimethylsilanolate	426920250, 25 g; 426921000, 100 g	10519-96-7	95%

Product Name	Product Code	CASNo	Purity
Propargyloxytrimethylsilane	313900025, 2.5 g; 313900100, 10 g	5582-62-7	97%
Propargyltrimethylsilane stabilized	366630010, 1 g; 366630050, 5 g	13361-64-3	80-90%
n-Propyltrichlorosilane	147411000, 100 mL; 147410010, 1 L	141-57-1	98%
Silicon(IV) chloride	201160500, 50 mL; 201165000, 500 mL; 201160025, 2.5 L	10026-04-7	99.8+%
Silicon(IV) chloride 1M solution in methylene chloride, AcroSeal®	428761000, 100 mL	10026-04-7	
Sodium bis(trimethylsilyl)amide	215960050, 5 g; 215960250, 25 g; 215961000, 100 g	1070-89-9	95+%
Sodium bis(trimethylsilyl)amide 2M solution in THF, AcroSeal®	277851000, 100 mL; 277858000, 800 mL	1070-89-9	
Sodium trimethylsilylanolate 1M solution in dichloromethane, AcroSeal®	428841000, 100 mL; 428848000, 800 mL	18027-10-6	
Sodium trimethylsilylanolate 1M solution in THF, AcroSeal®	428831000, 100 mL; 428838000, 800 mL	18027-10-6	
Tetraallylsilane	304600010, 1 g	1112-66-9	98%
Tetrabutyl orthosilicate	313690050, 5 g; 313690250, 25 g	4766-57-8	95%
Tetraethyl orthosilicate	157811000, 100 mL; 157812500, 250 mL; 157810010, 1 L; 157810025, 2.5 L	78-10-4	98%
Tetraethyl orthosilicate AcroSeal®	420361000, 100 mL; 420360010, 1 L	78-10-4	
[4'-(4,4,5,5-Tetramethyl-1,3,2-dioxaborolan-2-yl)phenyl] trimethylsilane	390870010, 1 g; 390870050, 5 g		98+%
4-(4,4,5,5-Tetramethyl-1,3,2-dioxaborolan-2-yl)-1-(triisopropylsilyl)-1H-indole	CC39539CB, 250 mg; CC39539DA, 1 g	690632-17-8	97%
5-(4,4,5,5-Tetramethyl-1,3,2-dioxaborolan-2-yl)-1-(triisopropylsilyl)-1H-indole	MO00983CB, 250 mg; MO00983DA, 1 g	690631-97-1	97%
1,1,3,3-Tetramethyldisiloxane	216510250, 25 mL; 216511000, 100 mL; 216515000, 500 mL	3277-26-7	97%
Tetramethyl orthosilicate	203820250, 25 g; 203821000, 100 g; 203825000, 500 g; 203820025, 2.5 kg	681-84-5	99%
Tetramethylsilane NMR gade	138470250, 25 g; 138471000, 100 g	75-76-3	99.9+%
Tetramethylsilane	268861000, 100 mL; 268865000, 500 mL; 268860025, 2.5 L	75-76-3	99%
Tetramethylsilane AcroSeal®	427331000, 100 mL	75-76-3	99%
Tetramethylsilane NMR gade	445900250, 25 g; 445901000, 100 g	75-76-3	
Tetraphenyldimethyldisilane	304570010, 1 g	1172-76-5	97%
N-TIPS indole-3-boronic acid pinacol ester	441030010, 1 g; 441030050, 5 g	476004-82-7	97%
N-TIPS pyrrole-3-boronic acid pinacol ester	441020010, 1 g; 441020050, 5 g	365564-11-0	95%
p-Tolyltrimethylsilane	383630010, 1 g; 383630050, 5 g	3728-43-6	99%
Trichlorosilane	174600050, 5 mL; 174602500, 250 mL; 174600010, 1 L	10025-78-2	99%
Triethoxysilane	164810100, 10 g; 164810500, 50 g	998-30-1	95%
Triethoxyvinylsilane	174610250, 25 g; 174615000, 500 g	78-08-0	97%
Triethylsilane	212920050, 5 g; 212920250, 25 g; 212921000, 100 g; 212925000, 500 g	617-86-7	99%
Triethylsilane AcroSeal®	446161000, 100 mL	617-86-7	99%
Triethylsilanol	313760010, 1 mL	597-52-4	97%
(Triethylsilyl)acetylene	368730010, 1 g; 368730050, 5 g	1777-03-3	97%
5-Triethylsilyl-4-pentyn-1-ol	381340050, 5 g	174064-02-9	97+%
Triethylsilyl trifluoromethanesulfonate	312700100, 10 g; 312700500, 50 g	79271-56-0	99%
Triethylvinylsilane	313770050, 5 g	1112-54-5	97%
(Trifluoromethyl)trimethylsilane	279720010, 1 mL; 279720050, 5 mL; 279720250, 25 mL	81290-20-2	99%
(Trifluoromethyl)trimethylsilane 0.5M solution in THF	368320050, 5 mL; 368320250, 25 mL; 368321000, 100 mL	81290-20-2	
(Trifluoromethyl)trimethylsilane 0.5M solution in THF, AcroSeal®	429171000, 100 mL	81290-20-2	

Product Name	Product Code	CASNo	Purity
(3,3,3-Trifluoropropyl)chlorodimethylsilane	432210050, 5 g; 432210250, 25 g	1481-41-0	95%
Triisopropylsilane	214920100, 10 g; 214920500, 50 g; 214922500, 250 g	6485-79-6	98%
Triisopropylsilane	372410100, 10 g; 372410500, 50 g	6485-79-6	95%
(Triisopropylsilyl)acetylene	368740050, 5 g; 368740250, 25 g	89343-06-6	97%
Triisopropylsilyl-trifluoromethanesulfonate	250700100, 10 g; 250700500, 50 g	80522-42-5	97%
Trimethoxysilane	392170050, 5 g; 392170250, 25 g; 392171000, 100 g	2487-90-3	95%
3-(Trimethoxysilyl)propyl acrylate stabilized	426600050, 5 g; 426600250, 25 g	4369-14-6	90%
N-[3-(Trimethoxysilyl)propyl]ethylenediamine	216531000, 100 g; 216535000, 500 g	1760-24-3	97%
3-(Trimethoxysilyl)propyl methacrylate	216550050, 5 mL; 216551000, 100 mL; 216555000, 500 mL	2530-85-0	98%
N-(Trimethylsilyl)acetamide	207590250, 25 g; 207591000, 100 g	13435-12-6	97%
Trimethylsilyl acetate	391980250, 25 g; 391981000, 100 g	2754-27-0	97%
(Trimethylsilyl)acetonitrile	426570010, 1 g; 426570050, 5 g	18293-53-3	97%
Trimethylsilylacetylene	203570050, 5 g; 203570250, 25 g; 203571000, 100 g	1066-54-2	98%
N-(Trimethylsilyl)allylamine	338680010, 1 g; 338680050, 5 g	10519-97-8	95%
2-Trimethylsilylanisole	391780010, 1 g; 391780050, 5 g	704-43-8	98%
3-Trimethylsilylanisole	391790010, 1 g; 391790050, 5 g	17876-90-3	97%
4-Trimethylsilylanisole	390900010, 1 g; 390900050, 5 g	877-68-9	97%
1-(Trimethylsilyl)-1H-benzotriazole	426260010, 1 g; 426260050, 5 g	43183-36-4	97%
Trimethylsilyl bromoacetate	215990050, 5 g	18291-80-0	98%
2-Trimethylsilyl-N-tert-butylacetaldimine	331150010, 1 g	73198-78-4	
6-Trimethylsilyl-N-tert-butyl-2,4-hexadienaldimine	331132500, 250 mg	171814-36-1	
4-Trimethylsilyl-3-butyn-1-ol	381320050, 5 g	2117-12-6	98%
Trimethylsilyl cyanide	199560050, 5 g; 199560250, 25 g; 199561000, 100 g; 199565000, 500 g	7677-24-9	98%
Trimethylsilyl cyanide AcroSeal®	422061000, 100 mL	7677-24-9	98%
(Trimethylsilyl)diazomethane approx. 2M solution in diethyl ether	397620050, 5 mL; 397620250, 25 mL; 397621000, 100 mL	18107-18-1	
(Trimethylsilyl)diazomethane approx. 2M solution in diethyl ether, AcroSeal®	429201000, 100 mL	18107-18-1	
(Trimethylsilyl)diazomethane ca. 2.0M solution in hexanes, tech.	385330050, 5 mL; 385330250, 25 mL; 385331000, 100 mL; 385335000, 500 mL	18107-18-1	
(Trimethylsilyl)diazomethane approx. 2.0M solution in hexanes, AcroSeal®	429211000, 100 mL;	18107-18-1	
Trimethylsilyl diethylphosphonoacetate	338170010, 1 mL; 338170050, 5 mL; 338170250, 25 mL	66130-90-3	95%
Trimethylsilyl 3,3-dimethylacrylate	330940010, 1 g	25436-25-3	
2-(Trimethylsilyl)ethanol	210480100, 10 mL; 210480500, 50 mL; 210482500, 250 mL	2916-68-9	99%
2-(Trimethylsilyl)ethoxymethyl chloride tech., stabilized	219020050, 5 mL; 219020250, 25 mL; 219021000, 100 mL	76513-69-4	90%
2-(Trimethylsilylethoxymethyl)triphenylphosphonium chloride	428240010, 1 g; 428240050, 5 g; 428240250, 25 g	82495-75-8	97%
2-(Trimethylsilylethynyl)pyridine	380800010, 1 g; 380800050, 5 g	86521-05-3	97%
O-(Trimethylsilyl)hydroxylamine	367950010, 1 g; 367950050, 5 g	22737-36-6	97%
N-(Trimethylsilyl)imidazole	167130250, 25 g; 167131000, 100 g; 167132500, 250 g	18156-74-6	97%
Trimethylsilyl isocyanate	224730050, 5 g; 224730250, 25 g	1118-02-1	95%
Trimethylsilyl isothiocyanate	213380100, 10 g; 213380500, 50 g	2290-65-5	97%
Trimethylsilyl methacrylate stabilized	338620050, 5 g	13688-56-7	97%
Trimethylsilylmethyl acetate	216000050, 5 g	2917-65-9	99%
2-(Trimethylsilylmethyl)allyl acetate	381380010, 1 g; 381380050, 5 g; 381380250, 25 g	72047-94-0	98%

Product Name	Product Code	CASNo	Purity
(Trimethylsilyl)methyl lithium 0.7M (10 wt%) solution in hexanes, AcroSeal®	377451000, 100 mL; 377458000, 800 mL	1822-00-0	
(Trimethylsilyl)methylmagnesium chloride 1.3M solution in THF, AcroSeal®	377461000, 100 mL; 377468000, 800 mL	13170-43-9	
(Trimethylsilyl)methyl trifluoromethanesulfonate	389010010, 1 g; 389010050, 5 g	64035-64-9	95+%
4-(Trimethylsilyl)morpholine	369200050, 5 g; 369200250, 25 g	13368-42-8	96%
3-(Trimethylsilyloxy)-1-butyne	389240050, 5 g; 389240250, 25 g	17869-76-0	97%
5-Trimethylsilyl-4-pentyn-1-ol	381330050, 5 g; 381330250, 25 g	13224-84-5	97%
3-(Trimethylsilyl)-1-propanol	214930050, 5 g	2917-47-7	97%
3-Trimethylsilylpropargyl aldehyde diethyl acetal	380930010, 1 g; 380930050, 5 g	87219-80-5	97+%
3-(Trimethylsilyl)propargyl bromide	399840010, 1 g; 399840050, 5 g	38002-45-8	97%
3-(Trimethylsilyl)propionic acid-d4 sodium salt	432120010, 1 g	24493-21-8	98 atom% D
1-(Trimethylsilyl)-1-propyne	223530010, 1 g; 223530050, 5 g	6224-91-5	98%
3-Trimethylsilyl-2-propyn-1-ol	313890010, 1 g	5272-36-6	99%
2-(Trimethylsilyl)pyridine	390360010, 1 g; 390360100, 10 g	13737-04-7	97+%
2-(Trimethylsilyl)thiazole	292290010, 1 mL; 292290050, 5 mL; 292290250, 25 mL	79265-30-8	96%
Trimethylsilyl trifluoromethanesulfonate	209440100, 10 mL; 209440500, 50 mL; 209442500, 250 mL	27607-77-8	99%
Trimethylstannylbutyldimethylsilane	382500010, 1 g	103731-29-9	97%
Trimethylstannyl dimethylphenylsilane	325200050, 5 g	94397-44-1	96%
Trimethylstannylmethyl diphenylsilane	325210010, 1 g; 325210050, 5 g	149013-84-3	96%
Trimethyl-2-thienylsilane	308280050, 5 g	18245-28-8	97%
Trimethyl(2-thienyl)silane	AC30828EA, 10 g	18245-28-8	97%
Trioctylsilane	434900050, 5 g; 434900250, 25 g	18765-09-8	95%
Triphenylvinylsilane	350990050, 5 g; 350990250, 25 g	18666-68-7	95%
Tri-n-propylsilane	390320050, 5 g; 390320250, 25 g	998-29-8	99%
Tris[N,N-bis(trimethylsilyl)amide]erbium(III)	381580010, 1 g	103457-72-3	99%
Tris(trimethylsilyl)amine	378770050, 5 g; 378770250, 25 g	1586-73-8	99%
Tris(trimethylsilyl) borate	381240250, 25 g; 381241000, 100 g	4325-85-3	
Tris(trimethylsilyloxy)ethylene	216010010, 1 g; 216010050, 5 g; 216010250, 25 g	69097-20-7	95%
Tris(trimethylsilyloxy)silane	313940050, 5 g; 313940250, 25 g	1873-89-8	97%
[Tris(trimethylsilyl)]phosphine	291700010, 1 mL; 291700050, 5 mL	15573-38-3	98%
Tris(trimethylsilyl) phosphite	428520050, 5 g; 428520250, 25 g; 428521000, 100 g	1795-31-9	92%
Tris(trimethylsilyl)silane	291060025, 2.5 mL; 291060250, 25 mL	1873-77-4	96%
Vinylmethylbis(trimethylsilyloxy)silane	338480050, 5 mL	5356-85-4	95%
Vinylxytrimethylsilane	338700010, 1 g; 338700050, 5 g	6213-94-1	97%
Vinyltrimethoxysilane	216521000, 100 g; 216525000, 500 g	2768-02-7	98%
Vinyltrimethoxysilane AcroSeal®	433061000, 100 mL; 433060010, 1 L	2768-02-7	97%
Vinyltrimethylsilane	200330250, 25 mL; 200331000, 100 mL	754-05-2	97%
Vinyl tris(2-methoxyethoxy) silane	250510100, 10 mL; 250511000, 100 mL	1067-53-4	96%
Vinyltris(trimethylsilyloxy)silane	338470010, 1 mL	5356-84-3	95%



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