

Gelest

Industrial Silanes

***For Adhesives, Sealants,
Coatings and Composites***

Increase Mechanical Properties

Mineral Surface Treatments

Architectural Coatings

Provide Crosslinking

Improve Dispersion

Enhance Adhesion

Water-Repellents

Release Coatings



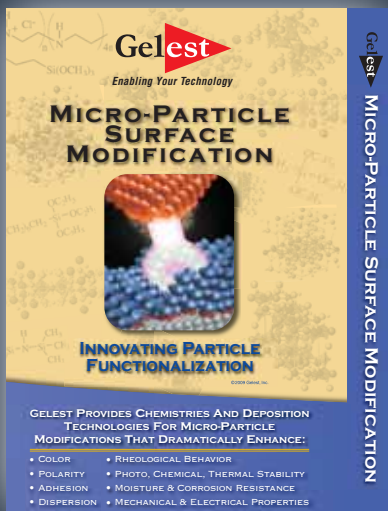
Silane Coupling Agents: Connecting Across Boundaries

Silane coupling agents enhance adhesion, increase mechanical properties of composites, improve dispersion of pigments and industrial minerals, provide crosslinking, immobilize catalysts and bind biomaterials. This 56 page brochure describes chemistry, techniques, applications and physical properties of silane coupling agents.



Hydrophobicity, Hydrophilicity and Silane Surface Modification

A description of non-functional silane monomers and siloxane oligomers that are used to prepare hydrophobic and hydrophilic surfaces is presented in a 80 page brochure. The emphasis is on distinguishing the features and benefits of the entire range of commercial alkyl-silanes and aryl-silanes, including dipodal and fluorinated materials.



Micro-Particle Surface Modification

Understanding characteristics that may affect the performance of surface modified micro-particles can dramatically improve the performance in many applications and markets. This 6 page brochure focuses on particle and chemical considerations that impact rheological behavior, color strength, dispersion, stability, and moisture and corrosion resistance enabling scientists to select materials that meet specific performance criteria.

Industrial Silanes

For Adhesives & Sealants, Coatings and Composites

This product bulletin provides physical properties and applications data on silanes that facilitates selection in most industrial applications. In addition to the commercial products listed in this brochure, Gelest manufactures a wide range of silanes produced on a developmental basis. Gelest welcomes the opportunity to provide further technical assistance for determining the optimal silane for your application.



Enabling Your Technology

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Gelest Inc., headquartered in Morrisville, PA, is recognized worldwide as an innovator, manufacturer and supplier of commercial and research quantities of organosilicon and metal-organic compounds. Gelest serves advanced technology markets through a materials science driven approach. Gelest silanes find applications in:

<p>Catalysis</p> <p>Ceramics</p> <p>Microelectronics</p> <p>Coupling Agents</p>		<p>Optical Coatings</p> <p>Polymer Synthesis</p> <p>Surface Modification</p> <p>Pharmaceutical Synthesis</p>
Research & Development		

	Product Code	Product Name	Molecular Weight	Boiling point/mm (Melting Point)	Specific Gravity	Refractive Index	
Empirical Formula $\begin{array}{c} \text{OCH}_3 \\ \\ \text{H}_2\text{C}=\text{CHCH}_2\text{Si}-\text{OCH}_3 \\ \\ \text{OCH}_3 \end{array}$	SIA0540.0	ALLYLTRIMETHOXYSILANE $\text{C}_6\text{H}_{14}\text{O}_3\text{Si}$ Adhesion promoter for vinyl-addition silicones Allylation of ketones, aldehydes and imines w/ dual activation of a Lewis Acid and fluoride ion. ¹ 1. Yamasaki, S.; et al. <i>J. Am. Chem. Soc.</i> 2002 , <i>124</i> , 6536. F&F: Vol 18, p 14; Vol 19, p 360; Vol 20, p 85; Vol 21, p 3, Vol 12, p 395	162.26	146-8 Flashpoint: 46°C (115°F)	0.963 ²⁵	1.4036 ²⁵	Other Physical Properties
	[2551-83-9]	TSCA	EC 219-855-8	HMIS: 3-2-1-X	10g	50g	2kg
	CAS #	European Registration #	Hazardous Material Information System Ratings (Health-Flammability-Reactivity) See Below				
	HYDROLYTIC SENSITIVITY: 7 reacts slowly with moisture/water Indicates Product Listed in TSCA Inventory (E= Exempt - Naturally Occurring Substance) (L= Low Volume Exemption) (S= Significant New Use Restriction)						
	HYDROLYTIC SENSITIVITY: 10 most sensitive to water; 0 least sensitive						
	References						



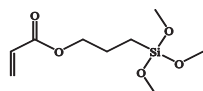
2.5 liter
(kg)



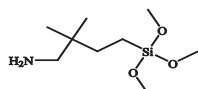
5 gallon or
19L cylinder (kg)



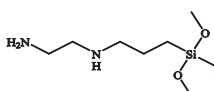
55 gallon
(kg)



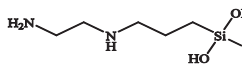
Name	MW	bp °C/mm (mp)	D ₄ ²⁰	n _D ²⁰	
SIA0200.0 3-(ACRYLOXYPROPYL)TRIMETHOXSILANE, 96% C ₉ H ₁₈ O ₂ Si Inhibited with BHT Coupling agent for epoxies, UV cure coatings Employed in optical fiber coatings. ¹ 1. Yokoshima, M. et al. <i>Chem. Abstr.</i> 113, 15746d; Jap. Pat. 02133338, 1990. HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water	234.32	68 / 0.4 Flashpoint: 123°C (253°F)	1.06	1.4155	
[4369-14-6] TSCA	store <5°C	HMIS: 3-1-1-X	2kg-kg: \$310.00	16kg-kg: \$256.00	180kg-kg: inquire



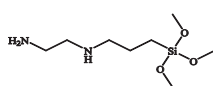
SIA0587.07 4-AMINO-3,3-DIMETHYLBUTYLTRIMETHOXSILANE AMINONEOHEXYLTRIMETHOXSILANE C ₉ H ₂₃ NO ₃ Si Sterically hindered primary amine coupling agent Non-yellowing aminosilane coupling agent for flexible adhesives and sealants HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water	221.37	230 Flashpoint: 97°C (207°F)	0.977	1.4302	
[157923-74-5] TSCA		HMIS: 3-1-1-X	2kg-kg: \$280.00	18kg-kg: \$154.00	200kg-kg: inquire



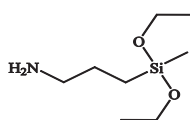
SIA0589.0 N-(2-AMINOETHYL)-3-AMINOPROPYLMETHYL-DIMETHOXSILANE, tech-95 C ₈ H ₂₂ N ₂ O ₂ Si Coupling agent for furan-quartz sand floor coating systems Adhesion promoter for urea-formaldehyde binders on flexible substrates Comonomer for silicones in textile softeners and hair care formulations HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water	206.36	265 Flashpoint: 90°C (194°F) Autoignition temp: 280°C Specific wetting surface: 380 m ² /g	0.975 ²⁵	1.4447 ²⁵	
[3069-29-2] TSCA	Reach preregistered	HMIS: 3-1-1-X	2kg-kg: \$72.00	16kg-kg: \$52.00	180kg-kg: inquire



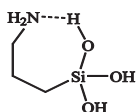
SIA0590.0 N-(2-AMINOETHYL)-3-AMINOPROPYLSILANETRIOL 25% in water, mainly oligomers C ₈ H ₁₈ N ₂ O ₃ Si Internal hydrogen bonding stabilizes solution Aqueous primer, adhesion promoter for resin-to-metal applications Additive for CMP slurries See also WSA-7021 for greater hydrolytic stability HYDROLYTIC SENSITIVITY: 0: forms stable aqueous solutions	180.28		1.00		
[68400-09-9] TSCA		HMIS: 2-0-0-X	2kg-kg: \$60.00	18kg-kg: \$48.00	200kg-kg: inquire



SIA0591.0 N-(2-AMINOETHYL)-3-AMINOPROPYLTRIMETHOXY-SILANE, tech-95 Contains 2-6% N,N'-BIS[(TRIMETHOXSILYL)PROPYL]ETHYLENEDIAMINE N-[3-(TRIMETHOXSILYL)PROPYL]ETHYLENEDIAMINE DAMO C ₈ H ₂₂ N ₂ O ₃ Si Viscosity: 6.5 cSt Specific wetting surface: 358 m ² /g Film-forming coupling agent/primer, fiberglass size component Coupling agent for polyamides, polycarbonates (e.g. in CDs), polyesters and copper/brass adhesion For cyclic version see SID3543.0, for pre-hydrolyzed version see SIA0590.0 Used in the immobilization of copper (II) catalyst on silica. ¹ 1. Wu, Q. and Wang, L. <i>Synthesis</i> , 2008 , 2007. HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water	226.36	140 / 15 Flashpoint: 150°C (302°F) TOXICITY: oral rat, LD50: 7,460 mg/kg Autoignition temperature: 300°C Surface tension: 36.5 mN/m Coefficient of thermal expansion: 0.8 x 10 ⁻³	1.019 ²⁵	1.450 ²⁵	
[1760-24-3] TSCA	Reach preregistered	HMIS: 3-1-1-X	2kg-kg: \$48.00	16kg-kg: \$36.00	180kg-kg: inquire



SIA0605.0 3-AMINOPROPYLMETHYLDIETHOXSILANE, 95% C ₈ H ₂₁ NO ₂ Si Coupling agent for foundry resins, including phenolic novolaks and resols Vapor phase deposition >150° on silica yields high density amine functionality. ¹ 1. Ek, S. et al. <i>Langmuir</i> 2003 , 19, 3461. HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water	191.34	85-8 / 8 Flashpoint: 85°C (185°F) TOXICITY: oral rat, LD50: 4,760 mg/kg	0.916	1.4272	
[3179-76-8] TSCA	Reach preregistered	HMIS: 3-2-1-X	2kg-kg: \$86.00	15kg-kg: \$54.00	180kg-kg: inquire



SIA0608.0 3-AMINOPROPYLSILANETRIOL, 22-25% in water C ₃ H ₁₁ NO ₃ Si Mainly oligomers; monomeric at concentrations <5% Water-borne, VOC-free coupling agent Internal hydrogen bonding stabilizes solution See also WSA-7011 for greater hydrolytic stability HYDROLYTIC SENSITIVITY: 0: forms stable aqueous solutions	137.21		1.06		
[58160-99-9] / [29159-37-3] TSCA		HMIS: 2-0-0-X	2kg-kg: \$60.00	18kg-kg: \$27.50	180kg-kg: inquire



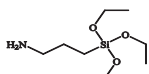
2.5 liter (kg)



5 gallon or 19L cylinder (kg)

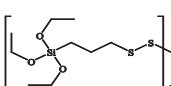
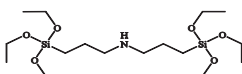


55 gallon (kg)



Amino-silanes are widely used as coupling agents for fiberglass insulation and composites

Name	MW	bp °C/mm (mp)	D ₄ ²⁰	n _D ²⁰
SIA0610.0 3-AMINOPROPYLTRIEHOXYSILANE GAPS, AMEO, A-1100 C ₉ H ₂₃ NO ₃ Si Viscosity: 1.6 cSt Vapor pressure, 100°: 10 mm ΔHvap: 11.8 kcal/mole Widely used coupling agent for phenolic, epoxy, polyamide and polycarbonate resins Effects immobilization of enzymes. ¹ Used to bind Cu(salicylalimine) to silica. ² 1. <i>Enzymes</i> 1976 , 84, 55915. 2. Murphy, E. F. et al. <i>Inorg. Chem.</i> 2003 , 42, 2559. For pre-hydrolyzed version - see SIA0608.0; blocked amine version - see SID4068.0 HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water	221.37	122-3 / 30 Flashpoint: 104°C (219°F) TOXICITY: oral rat, LD50: 1,780 mg/kg Primary irritation index: 6.50 Specific wetting surface: 353 m ² /g yc of treated surfaces: 37.5 mN/m Treated surface contact angle, water: 59°	0.951	1.4225
[919-30-2] TSCA Reach preregistered HMIS: 3-1-1-X	2kg-kg: \$42.00	16kg-kg: \$29.00	180kg-kg: inquire	
SIA0611.0 3-AMINOPROPYLTRIMETHOXYSILANE C ₆ H ₁₇ NO ₃ Si Vapor pressure, 67°: 5 mm Coupling agent with superior reactivity in vapor phase and non-aqueous surface treatments Hydrolysis rate vs SIA0610.0: 6:1 HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water	179.29	80 / 8 Flashpoint: 83°C (181°F) TOXICITY: oral rat, LD50: >2,000 mg/kg Autoignition temperature: 300°C	1.027	1.4240
[13822-56-5] TSCA Reach preregistered HMIS: 3-2-1-X	2kg-kg: \$78.00	18kg-kg: \$44.00	180kg-kg: inquire	
SIB1660.0 BIS[(3-METHYLDIMETHOXYSILYL)PROPYL]- POLYPROPYLENE OXIDE Hydrophilic dipodal silane With tin catalyst forms moisture-crosslinkable resins HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water	600-800	Flashpoint: >110°C (>230°F) Viscosity: 6,000-10,000 cSt.	1.00	1.452 ²⁵
[75009-88-0] TSCA HMIS: 3-1-1-X	2kg-kg: \$114.00	18kg-kg: \$68.00	200kg-kg: inquire	
SIB1817.0 1,2-BIS(TRIETHOXYSILYL)ETHANE HEXAETHOXYDISILETHYLENE, BSE C ₁₄ H ₃₄ O ₆ Si ₂ Additive to silane coupling agents formulations that enhances hydrolytic stability Employed in corrosion resistant coatings/primers for steel and aluminum. ^{1,2} Sol-gels of α,ω-bis(trimethoxysilyl)alkanes reported. ³ Component in evaporation-induced self-assembly of mesoporous structures. ⁴ Forms mesoporous, derivatizeable molecular sieves. ^{5,6} 1. Van Ooij, W. et al. <i>J. Adhes. Sci. Tech.</i> 1997 , 11, 29. 2. Van Ooij, W. et al. <i>Chemtech</i> 1999 , 28, 3302. 3. Loy, D. A. et al. <i>J. Am. Chem. Soc.</i> 1999 , 121, 5413. 4. Lu, Y. et al. <i>J. Am. Chem. Soc.</i> 2000 , 122, 5258. 5. Molde, B. et al. <i>Chem. Mater.</i> 1999 , 11, 3302. 6. Cho, E. et al. <i>Chem Mater.</i> 2004 , 16, 270. See also SIB1821.0, SIT8185.8 HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water	354.59	96 / 0.3 (-33) Flashpoint: 107°C (225°F) TOXICITY: oral rat, LD50: 161 mg/kg ΔHvap: 101.5 kJ/mole Vapor pressure, 150°: 10mm	0.957	1.4052
[16068-37-4] TSCA Reach preregistered HMIS: 3-1-1-X	2kg-kg: \$180.00	16kg-kg: \$120.00	180kg-kg: inquire	
SIB1824.5 BIS(3-TRIETHOXYSILYL)PROPYLAMINE, 95% C ₁₈ H ₄₃ NO ₆ Si ₂ Coupling agent for polyamides with improved hydrolytic stability Adhesion promoter, crosslinking agent for hot melt adhesives Adhesion promoter for aluminum-polyester multilayer laminates Adhesion promoter, crosslinker for 2-part condensation cure silicones HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water	425.71	160 / 0.6 Flashpoint: 162°C (324°F) Viscosity: 5.5 cSt	0.97	1.4265
[13497-18-2] TSCA Reach preregistered HMIS: 3-1-1-X	2kg-kg: \$180.00	18kg-kg: \$78.00	180kg-kg: inquire	
SIB1825.0 BIS[3-(TRIETHOXYSILYL)PROPYL]TETRASULFIDE TESPT tech-95 C ₁₈ H ₄₂ O ₆ S ₄ Si ₂ Contains distribution of S ₂ - S ₁₀ species; average 3.8 Adhesion promoter for precious metals Adhesion promoter for aluminum-polyester multilayer laminates Coupling agent/vulcanizing agent for "green" tires Adhesion promoter for PVD copper on parylene. ¹ 1. Pimanpang, S. et al. <i>J. Vac. Sci. Technol. A</i> 2006 , 24(5), 1884. HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water	538.94	250 dec Flashpoint: 91°C (196°F) TOXICITY: oral rat, LD50: 16,400 mg/kg Viscosity: 11 cSt	1.095	1.49
[40372-72-3] TSCA Reach preregistered HMIS: 2-2-1-X	2kg-kg: \$78.00	18kg-kg: \$32.00	210kg-kg: inquire	





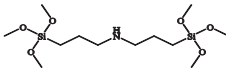
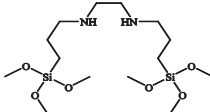
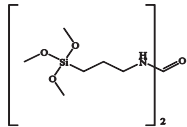
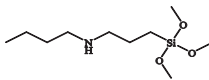
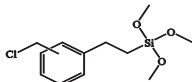

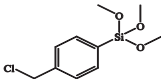
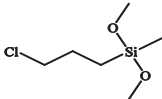
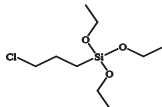
2.5 liter
(kg)



5 gallon or
19L cylinder (kg)



55 gallon
(kg)

Name	MW	bp °C/mm (mp)	D ₄ ²⁰	n _D ²⁰
 SIB1833.0 BIS(3-TRIMETHOXYSILYLPROPYL)AMINE, 96% C ₁₂ H ₂₇ NO ₆ Si ₂ Dipodal coupling agent Secondary amine allows more control of reactivity with isocyanates HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water [82985-35-1] TSCA Reach preregistered HMIS: 3-1-1-X 2kg-kg: \$140.00 18kg-kg: \$62.00 180kg-kg: inquire	341.56	152 / 4 Flashpoint: 113°C (235°F)	1.040	1.4320
 SIB1834.0 N,N'-BIS[(3-TRIMETHOXYSILYL)PROPYL]ETHYLENE-DIAMINE, 62% in methanol C ₁₄ H ₃₆ N ₂ O ₆ Si ₂ Contains N,N-isomer Coupling agent for polyamides with enhanced hydrolytic stability Provides improved solder resistance for printed circuit boards HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water [68845-16-9] TSCA Reach preregistered HMIS: 3-4-1-X 2kg-kg: \$190.00 16kg-kg: \$140.00 175kg-kg: inquire	384.62	Flashpoint: 20°C (68°F)	0.89	
 SIB1835.5 N,N'-BIS(3-TRIMETHOXYSILYLPROPYL)UREA, 95% C ₁₃ H ₃₂ N ₂ O ₇ Si ₂ Amber liquid Adhesion promoter for 2-part condensation cure silicone RTVs HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water [18418-53-6] TSCA HMIS: 3-2-1-X 2kg-kg: \$175.00 18kg-kg: \$136.00 200kg-kg: inquire	384.58	Flashpoint: >110°C (>230°F) Viscosity: 100 - 250 cSt	1.10	1.449
 SIB1932.2 n-BUTYLAMINOPROPYLTRIMETHOXYSILANE C ₁₀ H ₂₅ NO ₃ Si Reacts with isocyanate resins (urethanes) to form moisture cureable systems HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water [31024-56-3] TSCA Reach preregistered HMIS: 2-1-1-X 2kg-kg: \$120.00 17kg-kg: \$61.00 190kg-kg: inquire	235.40	102 / 3.5 Flashpoint: 110°C (230°F)	0.947	1.4246 ²⁵
 SIC2295.5 (CHLOROMETHYL)PHENYLETHYL)TRIMETHOXY-SILANE C ₁₂ H ₁₉ ClO ₃ Si Mixed m-, p-isomers Adhesion promoter for polyphenylenesulfide and polyimide coatings Employed as a high temperature coupling agent. ¹ 1. Arkles, B. et al. <i>Modern Plastics</i> 1980 , 57(11), 64. HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water [68128-25-6] TSCA Reach preregistered HMIS: 3-1-1-X 2kg-kg: \$680.00 18kg-kg: inquire	274.82	115 / 1.5 Flashpoint: 130°C (266°F)	1.09 ²⁵	1.4930 ²⁵
 Flexible multi-layer circuit boards for cell-phones use polyimide films coupled with chloromethyl aromatic silanes SIC2296.2 (p-CHLOROMETHYL)PHENYLTRIMETHOXY-SILANE C ₁₀ H ₁₅ ClO ₃ Si 95% Coupling agent for polyimides, e.g in printed circuit boards Modifies silica for high-throughput peptide synthesis. ¹ 1. Houghten, R. et al. <i>J. Am. Chem. Soc.</i> 2005 , 127, 8582. HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water [24413-04-5] TSCA Reach preregistered HMIS: 3-1-1-X 2kg-kg: \$1,600.00 18kg-kg: inquire	246.77	134-43 / 10 Flashpoint: 183°C (361°F)	1.14	1.4965
 SIC2298.4 CHLOROMETHYLTRIETHOXY-SILANE C ₇ H ₁₇ ClO ₃ Si Grignard reacts with chlorosilanes or intermolecularly to form carbosilanes. ¹ 1. Brondani, D. et al. <i>Tetrahedron Lett.</i> 1993 , 34, 2111. HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water [15267-95-5] TSCA Reach preregistered HMIS: 2-2-1-X 2kg-kg: \$288.00 18kg-kg: \$240.00 200kg-kg: inquire	212.75	90-1 / 25 Flashpoint: 47°C (117°F) TOXICITY: oral rat, LD50: 2,400 mg/kg	1.048	1.4069 ²⁵
 SIC2355.0 3-CHLOROPROPYLMETHYLDIMETHOXY-SILANE C ₆ H ₁₅ ClO ₂ Si HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water [18171-19-2] TSCA Reach preregistered HMIS: 3-2-1-X 2kg-kg: \$92.00 18kg-kg: \$61.50 200kg-kg: inquire	182.72	70-2 / 11 Flashpoint: 80°C (176°F) Specific wetting surface: 428 m ² /g	1.0250	1.4253
 SIC2407.0 3-CHLOROPROPYLTRIETHOXY-SILANE C ₉ H ₂₁ ClO ₃ Si Adhesion promoter for polyamine and epoxy resins HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water [5089-70-3] TSCA Reach preregistered HMIS: 2-2-0-X 2kg-kg: \$55.00 18kg-kg: \$32.00 200kg-kg: inquire	240.80	100-2 / 10 Flashpoint: 78°C (172°F)	1.009	1.420



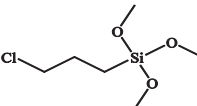
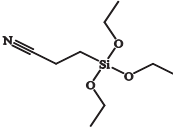
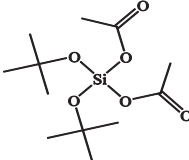
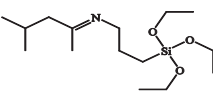
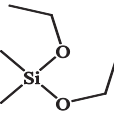
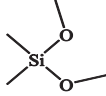
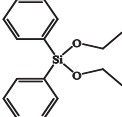
2.5 liter
(kg)



5 gallon or
19L cylinder (kg)



55 gallon
(kg)

Name	MW	bp °C/mm (mp)	D ₄ ²⁰	n _D ²⁰
 <p>SIC2410.0 3-CHLOROPROPYLTRIMETHOXSILANE C₆H₁₃ClO₃Si Viscosity, 20°: 0.56 cSt Vapor pressure, 100°: 40 mm</p> <p>Adhesion promoter for SBR hot-melt adhesives Powder flow control additive for dry powder fire extinguishing media HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water</p>	198.72	100 / 40 Flashpoint: 78°C (172°F) TOXICITY: oral rat, LD50: 5,628 mg/kg yc of treated surface: 40.5 mN/m Specific wetting surface: 394 m ² /g	1.077 ²⁵	1.4183 ²⁵
[2530-87-2] TSCA Reach preregistered HMIS: 3-2-1-X	2kg-kg: \$48.00	18kg-kg: \$26.00	200kg-kg: inquire	
 <p>SIC2445.0 2-CYANOETHYLTRIETHOXSILANE C₉H₁₉NO₃Si</p> <p>Crosslinker for moisture-cure silicone RTVs - improves fuel resistance Forms mesoporous organosilica in combination with bis(triethoxysilyl)ethane.¹ 1. Wahab, M. et al. <i>Microporous and Mesoporous Materials</i>, 2004, 69, 19. HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water</p>	217.34	224-5 Flashpoint: 86°C (187°F) TOXICITY: oral rat, LD50: 5,630 mg/kg	0.9792	1.4140
[919-31-3] TSCA Reach preregistered HMIS: 2-2-0-X	2kg-kg: \$180.00	17kg-kg: \$145.00	180kg-kg: inquire	
 <p>SID2790.0 DI-t-BUTOXYDIACETOXSILANE, tech-96 SILICON DI-t-BUTOXIDE DIACETATE C₁₂H₂₄O₆Si</p> <p>Adhesion promoter for silicone RTVs Impregnant/binder for ceramic coatings Source for silicon dioxide by LPCVD.^{1,3} Precursor for poly(di-t-butoxysiloxane) photoimageable polymers.² 1. Smolinsky, G. et al. <i>Mater. Lett.</i> 1986, 4, 256. 2. Senkevich, J. et al. <i>Chem. Mater.</i> 1999, 11, 1814. 3. Sakata, M. et al. <i>J. Photopolymer Sci. and Tech.</i> 1992, 5, 181. HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water</p>	292.40	102 / 5 (-) Flashpoint: 95°C (203°F) Vapor pressure, 50°: 0.03 mm ΔHvap: 81.7 kcal/mole	1.0196	1.4040
[13170-23-5] TSCA Reach preregistered HMIS: 3-2-2-X	3kg-kg: \$72.00	15kg-kg: \$36.00	200kg-kg: inquire	
 <p>SID4068.0 3-(1,3-DIMETHYLBUTYLIDENE)AMINOPROPYL- TRIETHOXSILANE, tech-95 C₁₅H₃₃NO₃Si</p> <p>Contains oligomers Coupling agent for epoxy coatings; blocked amine - moisture deblocked Preferred adhesion promoter for low viscosity epoxy systems See also SIM6572.0 HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water</p>	303.52	134 / 5 Flashpoint: 131°C (268°F)	0.93	1.437 ²⁵
[116229-43-7] TSCA HMIS: 2-1-1-X	2kg-kg: \$174.00	17kg-kg: \$92.00	180kg-kg: inquire	
 <p>SID4121.0 DIMETHYLDIETHOXSILANE, 98% C₆H₁₆O₂Si</p> <p>Viscosity: 0.53 cSt Vapor pressure, 25°: 15 mm Dipole moment: 1.39 Coefficient of thermal expansion: 1.3 x 10⁻³ Hydrophobic surface treatment and release agent HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water</p>	148.28	114-5 (-97) Flashpoint: 11°C (52°F) TOXICITY: oral rat, LDLo: 1,000 mg/kg ΔHcomb: -1,119 kcal/mole ΔHform: 200 kcal/mole ΔHvap: 9.8 kcal/mole	0.8395	1.3805
[78-62-6] TSCA Reach preregistered HMIS: 2-4-1-X	2kg-kg: \$72.00	15kg-kg: \$58.00	170kg-kg: inquire	
 <p>SID4123.0 DIMETHYLDIMETHOXSILANE, 96% C₄H₁₂O₂Si</p> <p>Contains methanol Viscosity, 20°: 0.44 cSt Vapor pressure, 36°: 100 mm Dipole moment: 1.33 debye Coefficient of thermal expansion: 1.3 x 10⁻³ Provides hydrophobic surface treatments in vapor phase applications HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water</p>	120.22	82 (-80) Flashpoint: -8°C (18°F) TOXICITY: oral rat, LD50: >2,000 mg/kg Autoignition temperature: 325° ΔHcomb: 832 kcal/mole ΔHform: 171 kcal/mole	0.8646	1.3708
[1112-39-6] TSCA Reach preregistered HMIS: 3-4-1-X	2kg-kg: \$55.00	15kg-kg: \$39.00	165kg-kg: inquire	
 <p>SID4525.0 DIPHENYLDIETHOXSILANE C₁₆H₂₀O₂Si</p> <p>Provides hydrophobic coatings with good thermal and UV resistance HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water</p>	272.42	167 / 15 Flashpoint: 175°C (347°F) Vapor pressure, 125°: 2 mm	1.0329	1.5269
[2553-19-7] TSCA Reach preregistered HMIS: 2-1-0-X	2kg-kg: \$130.00	18kg-kg: \$80.00	200kg-kg: inquire	



employed in thermal
efficiency coatings
for clear
incandescent
lamps.

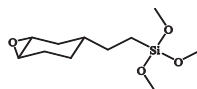
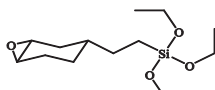
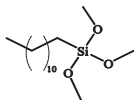
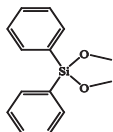


2.5 liter
(kg)

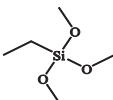
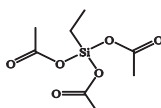
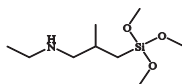
5 gallon or
19L cylinder (kg)

55 gallon
(kg)

Name	MW	bp °C/mm (mp)	D ₄ ²⁰	n _D ²⁰
SID4535.0 DIPHENYLDIMETHOXYSILANE, 98% C ₁₄ H ₁₆ O ₂ Si	244.36	161 / 15 Flashpoint: 121°C (250°F) Viscosity, 25°: 8.4 cSt	1.0771	1.5447
Intermediate for high temperature silicone resins HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water				
[6843-66-9] TSCA Reach preregistered HMIS: 3-1-1-X	2kg-kg: \$95.00	18kg-kg: \$64.00	200kg-kg: inquire	
SID4635.0 DODECYLTRIMETHOXYSILANE C ₁₅ H ₃₄ O ₃ Si	290.52	110-1 / 1 Flashpoint: >110°C (>230°F)	0.894 ²⁵	1.428
Hydrophobic surface treatment that improves compatibility with hydrocarbon fluids and polymers HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water				
[3069-21-4] HMIS: 3-2-1-X	2kg-kg: \$120.00	15kg-kg: \$54.00	170kg-kg: inquire	
SIE4668.0 2-(3,4-EPOXYCYCLOHEXYL)ETHYLTRIETHOXYSILANE C ₁₄ H ₂₈ O ₄ Si	288.46	114-7 / 0.4 Flashpoint: 104°C (219°F)	1.015	1.4455
Adhesion promoter for water-borne coatings on alkaline substrates HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water				
[10217-34-2] TSCA HMIS: 2-1-1-X	2kg-kg: \$160.00	18kg-kg: \$112.00	180kg-kg: inquire	
SIE4670.0 2-(3,4-EPOXYCYCLOHEXYL)ETHYLTRIMETHOXY-SILANE C ₁₁ H ₂₂ O ₄ Si	246.38	95-7 / 0.25 Flashpoint: 146°C (295°F) TOXICITY: oral rat, LD50: 12,300 mg/kg Specific wetting surface: 317 m ² /g yc of treated surfaces: 39.5 mN/m Coefficient of thermal expansion: 0.8 x 10 ⁻³	1.065	1.4490
Viscosity: 5.2 cSt Vapor pressure, 152°: 10 mm				
Ring epoxide more reactive than glycidoxypropyl systems UV initiated polymerization of epoxy group with weak acid donors Forms UV-curable coating resins by controlled hydrolysis. ¹ Used to make epoxy-organosilica particles w/ high positive Zeta potential. ² 1. Crivello, J. et al. <i>Chem. Mater.</i> 1997 , 9, 1554. 2. Nakamura, M. and Ishimura, K. <i>Langmuir</i> , 2008 , 24, 12228.				
HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water				
[3388-04-3] TSCA Reach preregistered HMIS: 3-1-1-X	2kg-kg: \$135.00	18kg-kg: \$51.50	200kg-kg: inquire	
SIE4886.0 (3-(N-ETHYLAMINO)ISOBUTYL)TRIMETHOXYSILANE C ₉ H ₂₃ NO ₃ Si	221.37	95 / 10 Flashpoint: 91°C (196°F)	0.952 ²⁵	1.4234
Reacts with isocyanate resins (urethanes) to form moisture cureable systems HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water				
[227085-51-0] TSCA HMIS: 3-2-1-X	2kg-kg: \$180.00	17kg-kg: \$126.00	180kg-kg: inquire	
SIE4899.0 ETHYLTRIACETOXYSILANE C ₈ H ₁₆ O ₆ Si	243.28	107-8 / 8 (7-9) Flashpoint: 106°C (223°F) TOXICITY: oral rat, LD50: 1,462 mg/kg	1.143	1.4123
Liquid cross-linker for silicone RTVs HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water				
[17689-77-9] TSCA Reach preregistered HMIS: 3-1-1-X	2kg-kg: \$74.00	18kg-kg: \$29.00	200kg-kg: inquire	
SIE4901.4 ETHYLTRIMETHOXYSILANE C ₅ H ₁₄ O ₃ Si	150.25	124-5 Flashpoint: 27°C (81°F) ΔHcomb: 3,425 kcal/mole	0.9488	1.3838
Viscosity: 0.5 cSt Develops clear resin coating systems more readily than methyltrimethoxysilane HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water				
[5314-55-6] TSCA Reach preregistered HMIS: 3-3-1-X	2kg-kg: \$70.00	17kg-kg: \$48.00	180kg-kg: inquire	
PP1-GC18 GLASSCLAD® 18			0.88	
Octadecyl functional silane, 20% in t-butanol/diacetone alcohol Control Hazy, amber liquid		Flashpoint: 10°C (50°F) Pour point: 4°C		
Surface conductivity of glass substrates is reduced by application of Glassclad® 18. Surface arc-tracking is eliminated on fluorescent light bulbs		Coefficient of friction of treated glass surface: 0.2 ^{0,3} Surface resistivity of treated surface: 1.2 x 10 ¹³ ohms		
Water-dispersible hydrophobic surface treatment For application information see Gelest's Performance Products Brochure Reduces blood protein adsorption. ¹ 1. Arkles, B. et al. In <i>Silanes Surfaces & Interfaces</i> ; Leyden, D., Ed; Gordon & Breach: 1986; p 91.				
HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water				
TSCA HMIS: 2-4-1-X	1.5kg-kg: \$110.00	15kg-kg: \$38.00	180kg-kg: inquire	



Epoxy-silanes are essential for performance of epoxy resin encapsulants for microchips





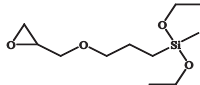
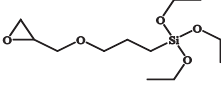
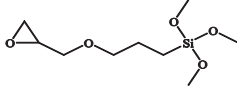

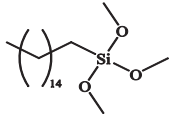
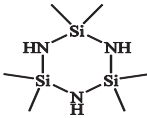
2.5 liter
(kg)



5 gallon or
19L cylinder (kg)



55 gallon
(kg)

Name	MW	bp °C/mm (mp)	D ₄ ²⁰	n _D ²⁰
SIG5832.0 (3-GLYCIDOXYPROPYL)METHYLDIETHOXSILANE <chem>C11H24O5Si</chem>  <p>Employed in scratch resistant coatings for eye glasses Coupling agent for latex systems with reduced tendency to gel compared to SIG5840.0 HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water</p>	248.39	122-6 / 5 Flashpoint: 122°C (252°F) TOXICITY: oral rat, LD50: >2,000 mg/kg Viscosity: 3.0 cSt	0.978 ²⁵	1.431
[2897-60-1] TSCA Reach preregistered HMIS: 2-1-1-X	2kg-kg: \$240.00	16kg-kg: \$176.00	180kg-kg: inquire	
SIG5839.0 (3-GLYCIDOXYPROPYL)TRIETHOXSILANE <chem>C12H26O5Si</chem>  <p>Viscosity: 3 cSt Coupling agent for latex polymers Primer for aluminum and glass to epoxy coatings and adhesives when applied as a 1-2% solution in solvent HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water</p>	278.42	124 / 3 Flashpoint: 144°C (291°F) Autoignition temperature: 225°C	1.00	1.425
[2602-34-8] TSCA Reach preregistered HMIS: 3-1-1-X	2kg-kg: \$235.00	18kg-kg: \$110.00	180kg-kg: inquire	
SIG5840.0 (3- GLYCIDOXYPROPYL)TRIMETHOXSILANE 3-(2,3-EPOXYPROPOXY)PROPYLTRIMETHOXSILANE GLYMO, A-187, GPTMS <chem>C9H20O5Si</chem>  <p>Viscosity: 3.2 cSt Specific wetting surface area: 331 m²/g Component in abrasion resistant coatings for plastic optics Coupling agent for epoxy composites employed in electronic "chip" encapsulation Component in aluminum metal bonding adhesives Used to prepare epoxy-containing hybrid organic-inorganic materials.¹ 1. Innocenzi, P. et al. <i>Chem. Mater.</i> 1999, <i>11</i>, 1672. HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water</p>	236.34	120 / 2 (<-70) Flashpoint: 135°C (276°F) TOXICITY: oral rat, LD50: 8,400 mg/kg Autoignition temperature: 231°C Surface tension: 38.5 mN/m	1.070	1.4290
[2530-83-8] TSCA Reach preregistered HMIS: 3-1-1-X	2kg-kg: \$69.00	18kg-kg: \$38.00	180kg-kg: inquire	
 SIH5925.0 HEXADECYLTRIMETHOXSILANE, 95% <chem>C19H42O3Si</chem>  <p>Viscosity: 7 cSt Employed as rheology modifier for moisture crosslinkable HDPE Modifier for moisture crosslinkable polyethylene (XLPE) Water scavenger HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water</p>	346.63	155 / 0.2 (-1) Flashpoint: 122°C (252°F) TOXICITY: oral rat, LD50: >2,000 mg/kg Autoignition temperature: 245°C	0.89	1.4356
[16415-12-6] TSCA Reach preregistered HMIS: 2-2-1-X	2kg-kg: \$120.00	16kg-kg: \$78.00	175kg-kg: inquire	
SIH6102.0 1,1,3,3,5,5-HEXAMETHYLCYCLOTETRISILAZANE <chem>C6H21N3Si3</chem>  <p>Viscosity, 20°: 1.7 cSt ΔHform: 132 kcal/mole Modifies positive resists for O₂ plasma resistance.¹ Polymerizes to polydimethylsilazane oligomer in presence of Ru/H₂.² Silylation reagent for diols.³ 1. Babich, E. et al. <i>Microelectron. Eng.</i> 1990, <i>11</i>, 503. 2. Blum, Y. et al. US Patent 4,216,383, 1986; US Patent 4,788,309, 1988. 3. Birkofer, L. et al. <i>J. Organomet. Chem.</i> 1980, <i>187</i>, 21. See also SID4074.4 1,1,1-DIMETHYLCYCLOSILAZANES HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water</p>	219.51	186-8 (-10) Flashpoint: 61°C (142°F) Dielectric constant, 1000Hz: 2.57 Dipole moment: 0.92	0.922	1.4448
[1009-93-4] TSCA Reach preregistered HMIS: 2-2-1-X	2kg-kg: \$290.00	16kg-kg: \$154.00	180kg-kg: inquire	



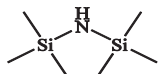
2.5 liter
(kg)



5 gallon or
19L cylinder (kg)



55 gallon
(kg)



Treatment of fumed silica with hexamethyldisilazane renders it hydrophobic

Name	MW	bp °C/mm (mp)	D ₄ ²⁰	n _D ²⁰		
SIH6110.0 1,1,1,3,3,3-HEXAMETHYLDISILAZANE <i>HMDS, HMDZ</i> C ₆ H ₁₉ NSi ₂ Viscosity: 0.90 cSt Vapor pressure, 50°: 50 mm Dielectric constant: 1000 Hz: 2.27 pKa: 7.55 Ea, reaction w/SiO ₂ surface: 17.6 kcal/mole Dipole moment: 0.37 Versatile silylation reagent; creates hydrophobic surfaces Review of synthetic utility. ¹ Converts acid chlorides and alcohols to amines in a three-component reaction. ² Reacts with formamide and ketones to form pyrimidines. ³ Lithium reagent reacts w/ aryl chlorides or bromides to provide primary anilines. ⁴	161.39	126-7 (<-76)	0.7742	1.4080		
Flashpoint: 12°C (54°F) TOXICITY: oral rat, LD50: 850 mg/kg TOXICITY: ipr mouse, LDLo: 650 mg/kg Autoignition temperature: 325°C ΔHcomb: 6,052 kcal/mole ΔHvap: 8.3 kcal mole Surface tension: 18.2 mN/m Specific wetting surface: 485 m ² /g						
F&F: Vol. 1, p 427; Vol. 2, p 159; Vol. 5, p 323; Vol. 6, p 273; Vol. 7, p 167; Vol. 8, p 29; Vol. 9, p 234; Vol. 11, p 38; Vol. 12, p 239; Vol. 13, p 141; Vol. 14, p 300. HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water						
[999-97-3]	TSCA	Reach preregistered	HMIS: 2-4-1-X	1.5kg-kg: \$40.00	14kg-kg: \$22.50	150kg-kg: inquire
SIH6115.0 HEXAMETHYLDISILOXANE, 98% <i>MM, HMDSO</i> C ₆ H ₁₈ O ₂ Si ₂ Viscosity: 0.65 cSt Vapor pressure, 30°: 55 mm Dipole moment: 0.78 debye Dielectric constant: 2.17 Surface tension: 15.9 mN/m Specific heat: 0.46 cal/g° Henry's law constant: 4.5 atm-m ³ /mole Review of synthetic utility. ¹ Exhibits high excess electron mobility: 22 cm ² /V s. ² Plasma polymerization produces hydrophobic coatings on metals. ³	162.38	99-100 (-67)	0.7636	1.3774		
Flashpoint: -1°C (30°F) TOXICITY: oral gpg LDLo: 32,500 mg/kg Autoignition temperature: 340°C Critical pressure: 1.91 mPa Critical temperature: 243° ΔHcomb: -1,401 kcal/mole ΔHvap: 7.2 kcal/mole Solubility parameter: 6.8 Solubility in water: 930 ppb						
1. <i>Handbook of Reagents for Organic Synthesis, Reagents for Silicon-Mediated Organic Synthesis</i> , Fuchs, P. L. Ed., John Wiley and Sons, Ltd., 2011, p. 317-319. 2. Li, H.-H. et al. <i>Eur. J. Org. Chem.</i> 2008 , 3623. 3. Tyagarajan, S.; Chakravarty, P. K. <i>Tetrahedron Lett.</i> 2005 , 46, 7889. 4. Lee, S.; Jorgensen, M.; Hartwig, J. F. <i>Org. Lett.</i> 2001 , 3, 2729. HYDROLYTIC SENSITIVITY: 1: no significant reaction with aqueous systems						
[107-46-0]	TSCA	Reach preregistered	HMIS: 1-3-0-X	1.5kg-kg: \$40.00	14kg-kg: \$21.00	150kg-kg: inquire
SIH6167.5 HEXYLTRIETHOXYSILANE C ₁₇ H ₂₈ O ₃ Si Viscosity: 3 cSt Employed in so-gel derived stationary phases for capillary electrochromatography. ¹	248.44	115 / 18	0.860	1.408 ²⁵		
Flashpoint: 95°C (203°F) 1. Li, W. et al. <i>J. Chromatog., A</i> 2004 , 1044, 23. HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water						
[18166-37-5]	TSCA		HMIS: 2-1-1-X	2kg-kg: \$80.00	15kg-kg: \$42.00	175kg-kg: inquire
SIH6168.5 HEXYLTRIMETHOXYSILANE C ₉ H ₂₂ O ₃ Si Surface modification of TiO ₂ pigments improves dispersion See also SIO6715.5 HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water	206.35	202-3	0.911 ²⁵	1.4070		
Flashpoint: 62°C (144°F)						
[3069-19-0]	TSCA	Reach preregistered	HMIS: 3-2-1-X	2kg-kg: \$95.00	16kg-kg: \$76.00	180kg-kg: inquire
SIH6453.5 ISOBUTYLTRIETHOXYSILANE, 98% C ₁₀ H ₂₄ O ₃ Si Hydrophobic surface treatment for microporous minerals HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water	220.38	190-1	0.9104	1.3908		
Flashpoint: 63°C (145°F) TOXICITY: oral rat, LD50: >5,000 mg/kg						
[17980-47-1]	TSCA	Reach preregistered	HMIS: 2-2-1-X	2kg-kg: \$46.00	16kg-kg: \$33.00	180kg-kg: inquire



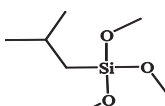

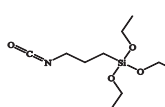
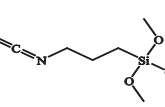
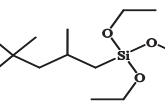
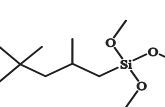
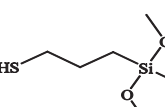
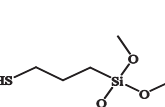
2.5 liter (kg)



5 gallon or 19L cylinder (kg)



55 gallon (kg)

Name	MW	bp °C/mm (mp)	D ₄ ²⁰	n _D ²⁰
SI6453.7 ISOBUTYLTRIMETHOXYSILANE TRIMETHOXYISILYL-2-METHYLPROPANE C ₇ H ₁₆ O ₃ Si   <p><i>Branched structure provides hydrophobic surface treatments for architectural coatings</i></p>	178.30	154	0.933	1.3960
Flashpoint: 42°C (108°F) TOXICITY: oral rat, LD50: >2,000 mg/kg Viscosity: 0.8 cSt HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water [18395-30-7] TSCA Reach preregistered HMIS: 3-2-1-X 2kg-kg: \$55.00 17kg-kg: \$29.00 180kg-kg: inquire				
SI6455.0 3-ISOCYANATOPROPYLTRIETHOXYSILANE, 95% C ₁₀ H ₂₁ NO ₃ Si  <p>Component in hybrid organic/inorganic urethanes.¹ 1. Cuney, S. et al. <i>Better Ceramics Through Chemistry VII (MRS. Symp. Proc.)</i> 1996, 435, 143.</p>	247.37	130 / 20	0.990	1.4190
Flashpoint: 80°C (176°F) HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water [24801-88-5] TSCA Reach preregistered HMIS: 3-2-1-X 2kg-kg: \$130.00 17kg-kg: \$96.00 180kg-kg: inquire				
SI6456.0 3-ISOCYANOTOPROPYLTRIMETHOXYSILANE, 95% C ₇ H ₁₅ NO ₃ Si  <p>Viscosity: 1.4 cSt</p>	205.29	95-8 / 10	1.073	1.4219
Flashpoint: 108°C (226°F) TOXICITY: oral rat, LD50: 878 mg/kg Autoignition temperature: 265° HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water [15396-00-6] TSCA HMIS: 3-2-1-X 2kg-kg: \$178.00 18kg-kg: \$108.00 200kg-kg: inquire				
SI6457.5 ISOOCYLTTRIETHOXYSILANE C ₁₄ H ₃₂ O ₃ Si  <p>Viscosity: 2.1 cSt Vapor pressure, 112°: 10mm Architectural water-repellent Water scavenger for sealed lubricant systems</p>	276.48	236 (<-80)	0.880	1.4160
Flashpoint: >65°C (>150°F) TOXICITY: oral rat, LD50: >2,000 mg/kg Autoignition temperature: 265°C HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water [35435-21-3] TSCA Reach preregistered HMIS: 1-2-1-X 2kg-kg: \$74.00 15kg-kg: \$28.00 175kg-kg: inquire				
SI6458.0 ISOOCYLTTRIMETHOXYSILANE C ₁₁ H ₂₆ O ₃ Si  <p>Viscosity: 2 cSt Component in Anti-Graffiti coatings</p>	234.41	90 / 10	0.887	1.4176
Flashpoint: 52°C (126°F) Autoignition temperature: 310°C HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water [34396-03-7] TSCA Reach preregistered HMIS: 3-2-1-X 2kg-kg: \$95.00 16kg-kg: \$38.00 180kg-kg: inquire				
SIM6474.0 3-MERCAPTOPROPYLMETHYLDIMETHOXYSILANE, 96% C ₆ H ₁₆ O ₂ SSi  <p>Intermediate for silicones in thiol-ene UV-cure systems Adhesion promoter for polysulfide sealants Used to make thiol-organosilica Nanoparticles.¹ 1. Nakamura, M. and Ishimura, K. <i>Langmuir</i>, 2008, 24, 5099.</p>	180.34	96 / 30	1.000	1.4502
Flashpoint: 93°C (199°F) HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water [31001-77-1] TSCA Reach preregistered HMIS: 3-2-1-X 2kg-kg: \$186.00 18kg-kg: \$118.00 180kg-kg: inquire				
SIM6476.0 3-MERCAPTOPROPYLTRIMETHOXYSILANE C ₆ H ₁₆ O ₃ SSi  <p>Viscosity: 2 cSt yc of treated surfaces: 41 mN/m Specific wetting surface: 348 m²/g Coupling agent for EPDM and mechanical rubber applications Adhesion promoter for polysulfide adhesives For enzyme immobilization.¹ Treatment of mesoporous silica yields highly efficient heavy metal scavenger.² Couples fluorescent biological tags to semiconductor CdS nanoparticles.³ Modified mesoporous silica supports Pd in coupling reactions.⁴ Used to make thiol-organosilica Nanoparticles.⁵</p>	196.34	93 / 40	1.051 ²⁵	1.4502 ²⁵
Flashpoint: 96°C (205°F) TOXICITY: oral rat, LD50: 2,380mg/kg Primary irritation index: 0.19 1. Stjernlöf, P. et al. <i>Tetrahedron Lett.</i> 1990 , 31, 5773. 2. Liu, J. et al. <i>Science</i> 1997 , 276, 923. 3. Bruchez, M. et al. <i>Science</i> 1998 , 281, 2013. 4. Crudden, C. et al. <i>J. Am. Chem. Soc.</i> 2005 , 127, 10045. 5. Nakamura, M. and Ishimura, K. <i>Langmuir</i> , 2008 , 24, 5099. HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water [4420-74-0] TSCA Reach preregistered HMIS: 3-2-1-X 2kg-kg: \$82.00 18kg-kg: \$38.00 180kg-kg: inquire				



Adhesion promoter for structural polysulfide glass sealants



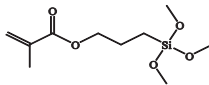

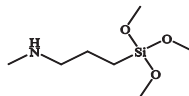
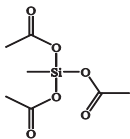

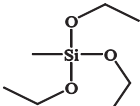
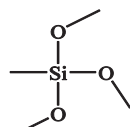
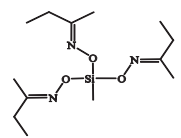
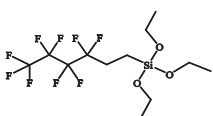
2.5 liter
(kg)



5 gallon or
19L cylinder (kg)



55 gallon
(kg)

Name	MW	bp °C/mm (mp)	D ₄ ²⁰	n _D ²⁰
SIM6487.4 METHACRYLOXYPROPYLTRIMETHOXSILANE <chem>C10H20O5Si</chem> Viscosity: 2 cSt Copolymerization parameters-e,Q: 0.07, 2.7	248.35	78-81 / 1 (-48) Flashpoint: 108°C (226°F)	1.045	1.4310
  <p>Coupling agent for radical cure polymer systems See SIA0200.0 for acrylate-functional UV cureable analog Widely used coupling agent for unsaturated polyester-fiberglass composites.¹ Copolymerized with styrene in formation of sol-gel composites.² Employed in dental polymer composites.³ 1. Arkles, B. <i>Chemtech</i> 1977, 7, 713. 2. Wei, Y. et al. <i>J. Mater. Res.</i> 1993, 8, 1143. 3. Matinlinna, J. et al. <i>Int. J. Prosthodontics</i> 2004, 17, 157. HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water</p>	Inhibited with MEHQ, HQ store <5°C Primary irritation index: 1.19 Specific wetting surface: 314m ² /g			
[2530-85-0] TSCA Reach preregistered HMIS: 3-1-1-X	2kg-kg: \$62.00	18kg-kg: \$35.00	180kg-kg: inquire	
SIM6500.0 N-METHYLAMINOPROPYLTRIMETHOXSILANE <chem>C7H19NO3Si</chem>	193.32	106 / 30 Flashpoint: 82°C (180°F)	0.978 ²⁵	1.4194
 <p>Orients liquid crystals Reacts with urethane prepolymers to form moisture-curable resins See also SIB1932.2, SIB1932.3, SIM6572.0 HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water</p>	yc of treated surfaces: 31 mN/m pK _b ²⁵ H ₂ O: 5.18			
[3069-25-8] TSCA Reach preregistered HMIS: 3-2-1-X	2kg-kg: \$210.00	15kg-kg: \$162.00	180kg-kg: inquire	
SIM6519.0 METHYLTRIACTOXSILANE, 95% <chem>C7H12O6Si</chem>	220.25	87-8 / 3 (40) Flashpoint: 85°C (185°F)	1.175	1.4083
 <p>Most common cross-linker for condensation cure silicone RTVs For liquid version see blend, SIM6519.2 HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water</p>	Vapor pressure, 94°: 9 mm			
[4253-34-3] TSCA Reach preregistered HMIS: 3-2-1-X	2kg-kg: \$100.00	18kg-kg: \$34.00	200kg-kg: inquire	
				
SIM6555.0 METHYLTRIETHOXSILANE <chem>C7H18O3Si</chem>	178.30	142 Flashpoint: 30°C (86°F)	0.8948	1.3832
 <p>Viscosity: 0.6 cSt Vapor pressure, 25°: 6 mm</p>	TOXICITY: oral rat, LD50: 12,500 mg/kg Autoignition temperature: 225°C (437°F) Dipole moment: 1.72 debye			
[2031-67-6] TSCA Reach preregistered HMIS: 1-3-1-X	2kg-kg: \$50.00	15kg-kg: \$24.00	180kg-kg: inquire	
<p>Low cost hydrophobic surface treatment HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water</p>				
SIM6560.0 METHYLTRIMETHOXSILANE <chem>C4H12O3Si</chem>	136.22	102-3 (-78) Flashpoint: 8°C (46°F)	0.955	1.3696
 <p>Viscosity: 0.50 cSt Dipole moment: 1.60 debye</p>	TOXICITY: oral rat, LD50: 12,500 mg/kg Autoignition temperature: 255° ΔHcomb: 1,142 kcal/mole			
[1185-55-3] TSCA Reach preregistered HMIS: 3-4-1-X	2kg-kg: \$35.00	17kg-kg: \$19.00	190kg-kg: inquire	
<p>Intermediate for coating resins HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water</p>				
SIM6590.0 METHYLTRIS(METHYLETHYLKETOXIMINO)SILANE <i>METHYLTRIS(2-BUTANONEOXIME)SILANE</i> <chem>C13H27N3O3Si</chem>	301.46	110-1 / 2 (-22) Flashpoint: 90°C (194°F)	0.982	1.4548 ²⁵
 <p>tech-95 Neutral cross-linker for condensation cure silicones See also SIV9280.0 HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water</p>	TOXICITY: oral rat, LD50: 2,000-3,000 mg/kg			
[22984-54-9] TSCA Reach preregistered HMIS: 2-2-1-X	2kg-kg: \$75.00	16kg-kg: \$28.00	190kg-kg: inquire	
SIN6597.65 NONAFLUOROHEXYLTRIETHOXSILANE <chem>C12H19F9O3Si</chem>	410.35	96 / 15	1.201	1.3502
 <p>Critical surface tension, treated surface: 23 mN/m Oleophobic, hydrophobic surface treatment HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water</p>				
[102390-98-7] TSCA-L HMIS: 2-2-1-X	2.5kg-kg: \$760.00	20kg-kg: \$685.00		



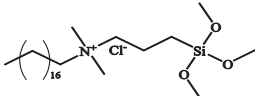
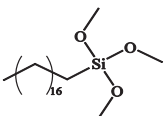
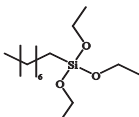
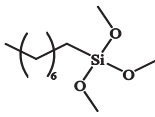
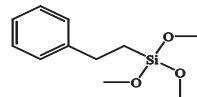
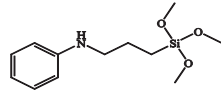
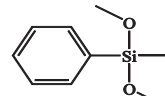
2.5 liter
(kg)



5 gallon or
19L cylinder (kg)



55 gallon
(kg)

Name	MW	bp °C/mm (mp)	D ₄ ²⁰	n _D ²⁰
SIO6620.0 OCTADECYLDIMETHYL(3-TRIMETHOXYSILYL)PROPYL-AMMONIUM CHLORIDE, 60% in methanol C ₂₆ H ₅₈ ClNO ₃ Si Contains 3-5% Cl(CH ₂) ₃ Si(OMe) ₃  Orients liquid crystals Provides an antistatic surface coating Employed as a glass lubricant Dispersion/coupling agent for high density magnetic recording media. ¹ Application as immobilizable antimicrobial reported. ² 1. Vincent, H. In <i>Chemically Modified Oxide Surfaces</i> ; D. Leyden, D., Ed.; Gordon & Breach: 1990; p.305. 2. White, W. et al. In <i>Silanes, Surfaces & Interfaces</i> ; Leyden, D., Ed.; Gordon & Breach: 1986; p.107. See also SID3392.0, SIO6606.0 HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water [27668-52-6] TSCA Reach preregistered HMIS: 3-4-0-X 2kg-kg: \$120.00 16kg-kg: \$52.00 190kg-kg: inquire	496.29		0.89	
SIO6645.0 n-OCTADECYLTRIMETHOXYSILANE, 95% C ₂₁ H ₄₆ O ₃ Si Contains 5-10% C ₁₈ isomers  Forms hydrophobic, oleophilic coatings Forms clear, ordered films with tetramethoxysilane. ¹ Undergoes oscillatory adsorption to form SAMs. ² 1. Shimjima, A. et al. <i>J. Am. Chem. Soc.</i> 1998 , <i>120</i> , 4528. 2. Thomsen, L. et al. <i>Surf. & Interface Analysis</i> 2005 , <i>37</i> , 472. See also SIS6952.0 HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water [3069-42-9] TSCA Reach preregistered HMIS: 2-1-1-X 2kg-kg: \$240.00 15kg-kg: \$102.00 160kg-kg: inquire	374.68	170 / 0.1 (13-17)	0.885	1.439
SIO6715.0 n-OCTYLTRIETHOXYSILANE C ₁₄ H ₃₂ O ₃ Si  Viscosity: 1.9 cSt May be formulated to stable water emulsions. ¹ 1. Depasquale, R. et al. US Patent 4,648,904, 1987. HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water [2943-75-1] TSCA Reach preregistered HMIS: 2-1-0-X 2kg-kg: \$60.00 15kg-kg: \$34.00 175kg-kg: inquire	276.48	98-9 / 2 (<-40)	0.8750	1.4160
SIO6715.5 n-OCTYLTRIMETHOXYSILANE C ₁₁ H ₂₆ O ₃ Si  Viscosity: 1 cSt Treatment for particles used in non-aqueous liquid dispersions See also SII6458.0 HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water [3069-40-7] TSCA Reach preregistered HMIS: 3-1-1-X 2kg-kg: \$95.00 15kg-kg: \$60.00 190kg-kg: inquire	234.41	191-2	0.907	1.417
SIP6722.6 PHENETHYLTRIMETHOXYSILANE, tech-95 C ₁₁ H ₁₈ O ₃ Si Contains α-, β-isomers  Component in optical coating resins In combination with TEOS forms hybrid silicalite-1 molecular sieves. ¹ 1. Yeong, Y. et al. <i>Adv. Mater. Res.</i> 2008 , <i>47-50</i> , 238 HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water [49539-88-0] TSCA Reach preregistered HMIS: 3-1-1-X 2kg-kg: \$190.00 18kg-kg: \$140.00 190kg-kg: inquire	226.35	95-6 / 2	1.037	1.4753
SIP6724.0 N-PHENYLAMINOPROPYLTRIMETHOXYSILANE C ₁₂ H ₂₁ NO ₃ Si  Oxidatively stable coupling agent for polyimides, phenolics, epoxies HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water [3068-76-6] TSCA Reach preregistered HMIS: 3-1-1-X 2kg-kg: \$120.00 18kg-kg: \$82.00 200kg-kg: inquire	255.38	132-5 / 0,3	1.07	1.504
SIP6740.0 PHENYLMETHYLDIMETHOXYSILANE C ₉ H ₁₄ O ₂ Si  Additive to coupling agent systems, increasing interface flexibility, UV stability HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water [3027-21-2] TSCA Reach preregistered HMIS: 3-2-1-X 2kg-kg: \$190.00 18kg-kg: \$120.00 180kg-kg: inquire	182.29	199-200	0.9934	1.4694



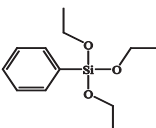
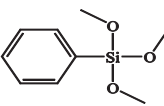
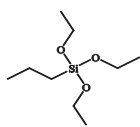
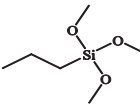
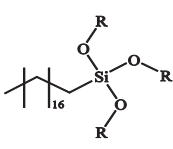
2.5 liter
(kg)



5 gallon or
19L cylinder (kg)



55 gallon
(kg)

Name	MW	bp °C/mm (mp)	D ₄ ²⁰	n _D ²⁰		
SIP6821.0 PHENYLTRITHOXYSILANE C ₁₂ H ₂₀ O ₃ Si  <p> Viscosity, 25°: 1.7 cSt Vapor pressure, 75°: 1 mm Dipole moment: 1.85 debye Surface tension: 28 mN/m Electron donor component of polyolefin polymerization catalyst complexes Improves photoresist adhesion to silicon nitride Effective treatment for organic-grafted clays.¹ Phenylates allyl benzoates.² 1. Canrado, K. et al. <i>Chem. Mater.</i> 2001, 13, 3766. 2. Correia, R. and DeShong, P. <i>J. Org. Chem.</i> 2001, 66, 7159. HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water </p>	240.37	112-3 / 10	0.996	1.4718		
<p>Flashpoint: 96°C (205°F) TOXICITY: oral rat, LD50: 2,830 mg/kg Autoignition temperature: 265°C Coefficient of thermal expansion: 0.9 x 10⁻³ Dielectric constant: 4.12</p>						
[780-69-8]	TSCA	Reach preregistered	HMIS: 2-1-1-X	2kg-kg: \$56.00	17kg-kg: \$30.00	200kg-kg: inquire
SIP6822.0 PHENYLTRIMETHOXYSILANE C ₉ H ₁₄ O ₃ Si  <p> Viscosity, 25°: 2.1 cSt Vapor pressure, 108°: 20 mm Dipole moment: 1.77 Hydrophobic additive to other silanes with excellent thermal stability Intermediate for high temperature silicone resins Cross couples with aryl halides.¹ Phenylates heteroaromatic carboxamides.² Directly couples with 1° alkyl bromides and iodides.³ Converts carboxylic acids to phenyl esters and vinyl carboxylates.⁴ Converts arylselenyl bromides to arylphenylselenides.⁵ Reacts with anhydrides to transfer both phenyl and methoxy and thus form the mixed diester.⁶ Used in the nickel-catalyzed direct phenylation of C-H bonds in heteroaromatic system such as benzoxazoles.⁷ 1. M. E. Mowery, and DeShong, P. <i>J. Org. Chem.</i> 1, 2137, 1999. 2. Lam, P. Y. S. et al. <i>Tetrahedron Lett.</i> 2001, 42, 2427. 3. Young, J.-Y. and Fu, G. C. <i>J. Am. Chem. Soc.</i> 2003, 125, 5616. 4. Luo, F. et al. <i>Synthesis</i> 2010, 2005. 5. Bhadra, S. et al. <i>J. Org. Chem.</i> 2010, 75, 4864. 6. Luo, F. et al. <i>J. Org. Chem.</i> 2010, 75, 5379. 7. Hachilya, H. et al. <i>Angew. Chem., Int. Ed. Engl.</i> 2010, 49, 2202. HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water </p>	198.29	211 (-25)	1.064	1.4734		
<p>Flashpoint: 86°C (187°F) TOXICITY: ivn mouse, LD50: 180 mg/kg Dielectric constant: 4.44</p>						
[2996-92-1]	TSCA	Reach preregistered	HMIS: 3-2-1-X	2kg-kg: \$49.00	18kg-kg: \$39.00	200kg-kg: inquire
SIP6917.0 n-PROPYLTRITHOXYSILANE C ₉ H ₂₂ O ₃ Si  <p> Architectural masonry water repellent Surface modifier for TiO₂ particles that improves dispersibility but does not reduce photocatalytic activity.¹ 1. Ukaji, E. et al. <i>Appl. Surf. Sci.</i> 2007, 254, 563. HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water </p>	206.36	179-80	0.8916	1.3956		
<p>Flashpoint: 57°C (135°F)</p>						
[2550-02-9]	TSCA	Reach preregistered	HMIS: 2-2-1-X	2kg-kg: \$70.00	16kg-kg: \$30.00	170kg-kg: inquire
SIP6918.0 n-PROPYLTRIMETHOXYSILANE C ₈ H ₁₆ O ₃ Si  <p> γc of treated surface: 28.5 mN/m Hydrophobic surface treatment Donor in Zeigler-Natta polymerization catalyst systems for polyolefins HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water </p>	164.27	142	0.932 ²⁵	1.3880		
<p>Flashpoint: 34°C (93°F) TOXICITY: oral rat, LD50: 7,420 mg/kg</p>						
[1067-25-0]	TSCA	Reach preregistered	HMIS: 3-3-1-X	2kg-kg: \$56.00	16kg-kg: \$26.00	180kg-kg: inquire
SIS6952.0 SILICLAD® OCTADECYL FUNCTIONAL SILANE 20% in t-AMYL ALCOHOL and DIACETONE ALCOHOL Amber liquid  <p> For application information see Performance Products Brochure Reduces blood protein adsorption.¹ Anti-stiction coating for polysilicon.² 1. Arkles, B. et al. In <i>Silanes Surfaces & Interfaces</i>; Leyden, D., Ed; Gordon & Breach: 1986; p 91. 2. Almanza-Workman, A. et al. <i>J. Electrochem. Soc.</i> 2002, 149, H6 HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water </p>			0.880			
<p>Flashpoint: 25°C (77°F) Coefficient of friction of treated glass surface: 0.2 - 0.3 Surface resistivity of treated surface: 1.2 x 10¹³ ohms γc of treated glass surface: 31 mN/m</p>						
[39443-39-5]	TSCA		HMIS: 2-3-1-X	1.5kg-kg: \$116.00	15kg-kg: \$45.00	175kg-kg: inquire



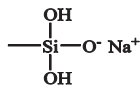
2.5 liter (kg)



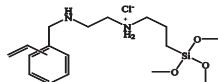
5 gallon or 19L cylinder (kg)



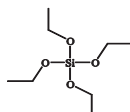
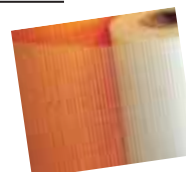
55 gallon (kg)



Name	MW	bp °C/mm (mp)	D ₄ ²⁰	n _D ²⁰
SIS6984.0 SODIUM METHYLSILICONATE, 30% in water CH ₃ NaO ₃ Si	116.12		1.24	
Forms economical water-repellent coatings HYDROLYTIC SENSITIVITY: 0: forms stable aqueous solutions				
[16589-43-8] TSCA Reach preregistered HMIS: 3-0-0-X	2.5kg-kg: \$24.00	20kg-kg: \$19.00	250kg-kg: inquire	

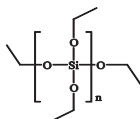


SIS6994.0 3-(N-STYRYLMETHYL-2-AMINOETHYLAMINO)- PROPYLTRIMETHOXYSILOXANE HYDROCHLORIDE, 40% in methanol C ₁₇ H ₃₁ ClN ₂ O ₃ Si	374.98		0.91	1.395
Inhibited with BHT Flashpoint: 11°C (52°F) store <5°C Viscosity: 2.3 cSt Specific wetting surface area: 208 m ² /g Coupling agent for phenolic and epoxy fiberglass laminates (printed circuit boards) HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water				
[34937-00-3] TSCA Reach preregistered HMIS: 3-4-1-X	2kg-kg: \$122.00	15kg-kg: \$58.00	180kg-kg: inquire	

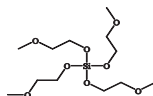


TEOS forms low density insulating aerogels

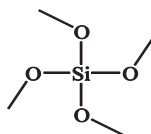
SIT7110.0 TETRAETHOXYSILOXANE, 98% TETRAETHYLORTHOSILICATE; TEOS C ₈ H ₂₀ O ₄ Si	208.33	169 (-77)	0.9335	1.3818
28-9% SiO ₂ equivalent Viscosity: 0.8 cSt Vapor pressure, 20°: 11.8 mm Vapor pressure, 60°: 12 mm Vapor pressure, 108°: 200 mm Vapor viscosity, 60°: 60 micropoise Dielectric constant: 4.1 Dipole moment: 1.63 Source by hydrolysis of SiO ₂ and sol-gel derived glasses. ¹ Intermediate for silica spheres with controlled dimensions. ² 1. Brinker, C. et al. <i>Sol-Gel Science</i> ; Academic Press: 1990. 2. Stöber, W. et al. <i>J. Coll. Interface Sci.</i> 1968 , 26, 62. See also polydiethoxysiloxane - PSI-021 HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water				
[78-10-4] TSCA Reach preregistered HMIS: 2-2-1-X	3kg-kg: \$22.00	17kg-kg: \$15.00	185kg-kg: inquire	



SIT7110.3 TETRAETHOXYSILOXANE, oligomeric hydrolysate ETHYLSILICATE 40, POLY(DIETHOXYSILOXANE) [(C ₂ H ₅ O) ₂ SiO] _n	650-800		1.05-1.07	1.398
Metal content: 20.5-21.5% Si (40-42% SiO ₂ equivalent) Viscosity: 3-5 cSt Base for zinc-rich paints HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water				
[68412-37-3] TSCA	2kg-kg: \$30.00	18kg-kg: \$18.00	220kg-kg: inquire	



SIT7286.0 TETRAKIS(METHOXYETHOXY)SILOXANE, tech-95 C ₁₂ H ₂₈ O ₈ Si	328.43	179-82 / 10	1.079	1.4219
Contains tris(methoxyethoxy)ethoxysilane Flashpoint: 118°C (244°F) Viscosity: 4.9 cSt Crosslinker for condensation cure silicone RTVs HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water				
[2157-45-1] TSCA Reach preregistered HMIS: 3-1-0-X	2.5kg-kg: \$90.00	18kg-kg: \$38.00	200kg-kg: inquire	



SIT7510.0 TETRAMETHOXYSILOXANE, 98% TETRAMETHYLORTHOSILICATE; TMOS C ₄ H ₁₂ O ₄ Si	152.22	121-2 (4-5)	1.032	1.3688
Flashpoint: 20°C (68°F) TOXICITY: oral rat, LD50: 700 mg/kg TOXICITY: ihl rat, LCLo: 1,000 mg/m ³ /10M CAUTION: VAPORS CAN CAUSE BLINDNESS- GOGGLES MUST BE WORN SURFACE TRANSPORT ONLY - UPS FORBIDDEN. AIR TRANSPORT FORBIDDEN See PSI-026 Poly(dimethoxysiloxane) for safer version; see SIT7510.2 for high purity grade Viscosity: 0.5 cSt Vapor pressure, 25°: 12 mm Dipole moment: 1.75 debye Autoignition temperature: 245° ΔHcomb: 694 kcal/mole ΔHform: 300 kcal/mole ΔHvap: 11.25 kcal/mole Specific heat: 1.6 J/g/°f Deposition frosting of glass Cocatalyst with CsF for Michael additions Converts aryl fluorides to anisole derivatives. ¹ 1. Buckley, H. L. et al. <i>Organometallics</i> 2009 , 28, 2356. HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water				
[681-84-5] TSCA Reach preregistered HMIS: 4-4-1-X	2kg-kg: \$140.00	18kg-kg: \$55.00	200kg-kg: inquire	



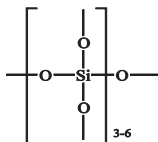
2.5 liter
(kg)



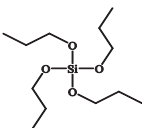
5 gallon or
19L cylinder (kg)



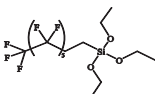
55 gallon
(kg)



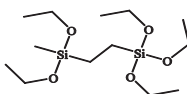
Name	MW	bp °C/mm (mp)	D ₄ ²⁰	n _D ²⁰
SIT7510.3 TETRAMETHOXYSILOXANE, oligomeric hydrolysate METHYLSILICATE, CONDENSED CH ₃ O[(CH ₃ O) ₂ SiO] ₃₋₆ CH ₃ 26.0-27.0% silicon - typically 3-5 silicon atoms (50-52% SiO ₂ equivalent) Viscosity: 6-9 cSt. Lower toxicity replacement for tetramethoxysilane Highest SiO ₂ content precursor for sol-gel; intermediate for synthetic quartz HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water	380-500		1.17	1.398
[25498-02-6] TSCA	HMIS: 3-2-1-X	2.5kg-kg: \$152.00	20kg-kg: \$92.50	225kg-kg: inquire



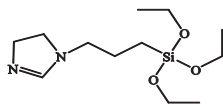
SIT7777.0 TETRA-n-PROPOXYSILOXANE SILICON TETRA-n-PROPOXIDE C ₁₂ H ₂₈ O ₄ Si Viscosity: 1.66 cSt Surface tension: 23.6 mN/m Coefficient of thermal expansion: 9.12 x 10 ⁻⁴ /°C Crosslinker for tin catalyzed condensation cure silicones In combination with CTAB intermediate for mesoporous silica fibers. ¹ 1. Kleits, F. et al. <i>Chrom. Mater.</i> 2001 , 13, 3587. HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water	264.44	224-5 (<-80)	0.9158	1.4012	
[682-01-9] TSCA	Reach preregistered	HMIS: 2-2-1-X	2kg-kg: \$69.00	16kg-kg: \$42.00	182kg-kg: inquire



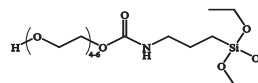
SIT8175.0 (TRIDecaFLUORO-1,1,2,2-TetraHydroOctyl)- TRIETHOXYSILOXANE C ₁₄ H ₁₉ F ₁₃ O ₃ Si Automotive side windows are treated with fluoroalkylsilanes to provide self-cleaning properties HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water	510.36	86 / 1.5 (<-38)	1.351	1.3436
[51851-37-7] TSCA	Reach preregistered	HMIS: 2-2-1-X	3kg-kg: \$1,180.00	25kg-kg: inquire



SIT8185.8 1-(TRIETHOXYSILOXYL)-2-(DIETHOXYMETHYLSILOXYL)- ETHANE C ₁₃ H ₃₂ O ₆ Si Dipodal silane Improves hydrolytic stability of silane adhesion promotion systems Lower toxicity, easier to handle than bis(triethoxysilyl)ethane HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water	324.56	100 / 0.5	0.946	1.4112
[18418-54-7] TSCA	HMIS: 2-1-1-X	2kg-kg: \$380.00	16kg-kg: \$260.00	180kg-kg: inquire



SIT8187.5 N-(3-TRIETHOXYSILOXYLPROPYL)-4,5-DIHYDRO- IMIDAZOLE 3-(2-IMIDAZOLIN-1-YL)PROPYLTRIETHOXYSILOXANE, IMEO C ₁₂ H ₂₈ N ₂ O ₃ Si Viscosity: 5 cSt. Coupling agent for elevated temperature-cure epoxies Utilized in HPLC of metal chelates. ¹ Forms proton vacancy conducting polymers with sulfonamides by sol-gel. ² Ligand for molecular imprinting of silica with chymotrypsin transition state analog. ³ 1. Suzuki, T. et al. <i>Chem. Lett.</i> 1994 , 881. 2. De Zea Bermudez, V. et al. <i>Sol-Gel Optics II, SPIE Proc.</i> 1992 , 1728, 180. 3. Markowitz, M. et al. <i>Langmuir</i> 2000 , 16, 1759. HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water	274.43	134 / 2	1.005	1.452	
[58068-97-6] TSCA	Reach preregistered	HMIS: 2-1-1-X	2kg-kg: \$314.00	18kg-kg: \$148.00	180kg-kg: inquire



SIT8192.0 N-(TRIETHOXYSILOXYLPROPYL)-O-POLYETHYLENE- OXIDE URETHANE, 95% C ₁₀ H ₂₂ NO ₄ Si(CH ₂ CH ₂ O) ₄₋₆ H Viscosity: 75-125 cSt Hydrophilic surface modifier Forms PEGylated glass surfaces suitable for capillary electrophoresis. ¹ 1. Razunguzwa, T. et al. <i>Anal. Chem.</i> 2006 , 78, 4326 See also SIB1824.82 HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water	400-500		1.09	1.4540 ²⁵
[74695-91-3] TSCA	HMIS: 2-1-1-X	2kg-kg: \$290.00	20kg-kg: \$210.00	200kg-kg: inquire



2.5 liter
(kg)



5 gallon or
19L cylinder (kg)



55 gallon
(kg)

Name	MW	bp °C/mm (mp)	D ₄ ²⁰	n _D ²⁰	
<p>SIT8192.6 (3-TRIETHOXSILYL)PROPYL SUCCINIC ANHYDRIDE, 95% C₁₃H₂₄O₆Si Viscosity: 20 cSt</p> <p>Coupling agent for dibasic surfaces Acetic acid-catalyzed hydrolysis yields succinic acid derivatives HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water</p>	304.41	135 / 0.2	1.070	1.4405	
[93642-68-3] TSCA	HMIS: 2-1-1-X	2kg-kg: \$360.00	18kg-kg: \$262.00	200kg-kg: inquire	
<p>SIT8372.0 (3,3-TRIFLUOROPROPYL)TRIMETHOXSILANE, 98% C₆H₁₃F₃O₃Si yc of treated surface: 33.5 mN/m</p> <p>Forms catalytic gels for aerobic oxidation of alcohols in combination with tetrapropylammonium perchlerate.¹ 1. Cirminna, R. et al. <i>Org. Biomol. Chem.</i> 2006, <i>4</i>, 2637 HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water</p>	218.25	144	1.137	1.3546	
[429-60-7] TSCA	Reach preregistered	HMIS: 3-3-1-X	2.5kg-kg: \$480.00	20kg-kg: \$385.00	220kg-kg: inquire
<p>SIT8398.0 (3-TRIMETHOXSILYL)PROPYL DIETHYLENEDIAMINE C₁₀H₂₇N₃O₃Si 95%</p> <p>Hardener, coupling agent for epoxies See also SSP060, SIS6944.0 HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water</p>	265.43	114-8 / 2	1.030	1.4590	
[35141-30-1] TSCA	Reach preregistered	HMIS: 3-1-1-X	2kg-kg: \$124.00	18kg-kg: \$55.00	200kg-kg: inquire
<p>SIT8408.0 TRIMETHOXSILYLPROPOXY POLYETHYLENE OXIDE, METHYL ETHER, tech-85 CH₃(C₂H₄O)₆₋₉(CH₂)₃OSi(OCH₃)₃ Hydrophilic surface treatment Stabilizes colloidal silica sols in aqueous alcohol and aqueous glycol systems HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water</p>	459-591	(-8)	1.076	1.403	
[65994-07-2] TSCA	HMIS: 2-2-1-X	2kg-kg: \$120.00	20kg-kg: \$68.00	200kg-kg: inquire	
<p>SIT8415.0 N-TRIMETHOXSILYLPROPYL-N,N,N-TRIMETHYLAMMONIUM CHLORIDE, 50% in methanol Flashpoint: 11°C (52°F) N,N,N-TRIMETHYL-3-(TRIMETHOXSILYL)-1-PROPANAMINIUM CHLORIDE C₉H₂₄ClNO₃Si</p> <p>Employed for bonded chromatographic phases Anti-static agent Used to treat glass substrates employed in electroblotting Prevents contact electrification.¹ 1. Thomas, S. et al. <i>J. Am. Chem. Soc.</i> 2009, <i>131</i>, 8746. See also SIT8395.0 HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water</p>	257.83		0.927	1.3966	
[35141-36-7] TSCA	Reach preregistered	HMIS: 2-4-1-X	2kg-kg: \$195.00	15kg-kg: \$124.00	180kg-kg: inquire
<p>SIT8515.0 TRIMETHYLETHOXSILANE ETHOXYTRIMETHYLSILANE C₅H₁₄O₂Si Vapor pressure, 22°: 111 mm Dipole moment: 1.2</p> <p>Anti-structuring additive for silicone rubber HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water</p>	118.25	75-6 (-83)	0.7573	1.3742	
[1825-62-3] TSCA	Reach preregistered	HMIS: 2-4-1-X	1.5kg-kg: \$92.00	14kg-kg: \$48.00	150kg-kg: inquire
<p>SIT8566.0 TRIMETHYLMETHOXSILANE C₄H₁₂O₂Si Dipole moment: 1.18 debye Undergoes α-lithiation with tert-butyllithium.¹ 1. Bates, T.F. et al. <i>J. Organometal. Chem.</i> 2000, <i>595</i>, 87. F&F: Vol. 14, p 119. HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water</p>	104.22	57-8	0.7560	1.3678	
[1825-61-2] TSCA	Reach preregistered	HMIS: 3-4-1-X	1.5kg-kg: \$124.00	14kg-kg: \$52.00	145kg-kg: inquire



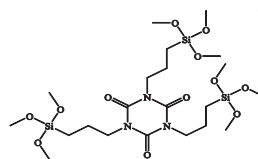
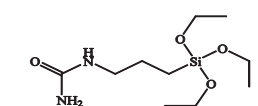
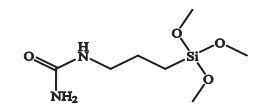
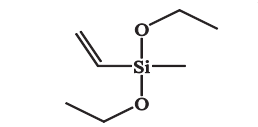
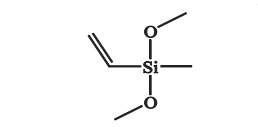
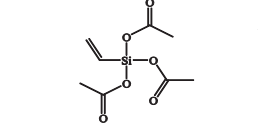
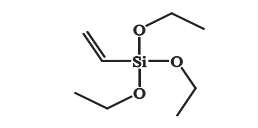
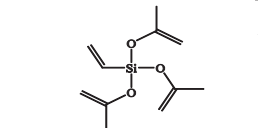
2.5 liter
(kg)



5 gallon or
19L cylinder (kg)



55 gallon
(kg)

Name	MW	bp °C/mm (mp)	D ₄ ²⁰	n _D ²⁰
 <p>SIT8717.0 TRIS(3-TRIMETHOXYSILYLPROPYL)ISOCYANURATE C₂₁H₄₅N₃O₁₂Si₃ tech-95 Flashpoint: 102°C (216°F) Viscosity: 325-350 cSt. Adhesion promoter for hotmelt adhesives Coupling agent for polyimides to silicon metal Forms periodic mesoporous silicas.¹ 1. Zhang, W. et al. <i>Chem. Mater.</i> 2007, <i>19</i>, 2663. HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water</p>	615.86		1.170	1.4610
[26115-70-8] TSCA Reach preregistered HMIS: 2-1-1-X	2kg-kg: \$180.00	18kg-kg: \$112.00	235kg-kg: inquire	
 <p>SIU9055.0 UREIDOPROPYLTRIMETHOXYSILANE, 50% in methanol C₁₀H₂₃N₂O₄Si Flashpoint: 11°C (52°F) Contains ureidopropyltrimethoxysilane and related transesterification products Coupling agent for polyamides and urea-formaldehyde resins See also SIS6944.0 HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water</p>	264.40	(-97)	0.92	1.386
[23779-32-0] TSCA Reach preregistered HMIS: 2-4-1-X	2kg-kg: \$75.00	16kg-kg: \$48.00	180kg-kg: inquire	
 <p>SIU9058.0 UREIDOPROPYLTRIMETHOXYSILANE C₇H₁₈N₂O₄Si Flashpoint: 99°C (210°F) Component in primers for tin alloys Adhesion promoter for foundry resins HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water</p>	222.32	217-225 (-5)	1.150	1.386 ²⁵
[23843-64-3] TSCA Reach preregistered HMIS: 2-1-1-X	2kg-kg: \$190.00	20kg-kg: \$124.00	225kg-kg: inquire	
 <p>SIV9085.0 VINYL METHYLDIETHOXYSILANE C₇H₁₆O₂Si Flashpoint: 16°C (61°F) Dipole moment: 1.27 Copolymerization parameters- e,Q; -0.86, 0.020 Chain extender, crosslinker for silicone RTVs and hydroxy-functional resins HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water</p>	160.29	133-4	0.858	1.3998
[5507-44-8] TSCA Reach preregistered HMIS: 2-4-1-X	2kg-kg: \$160.00	15kg-kg: \$86.00	160kg-kg: inquire	
 <p>SIV9086.0 VINYL METHYLDIMETHOXYSILANE C₆H₁₂O₂Si Flashpoint: 15°C (59°F) Viscosity: 0.7 cSt Vapor pressure, 20°: 38 mm Additive to moisture-cure silane modified polyurethanes as a water scavenger to prevent premature cure HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water</p>	132.23	103	0.889	1.395
[16753-62-1] TSCA	2kg-kg: \$120.00	16kg-kg: \$72.00	170kg-kg: inquire	
 <p>SIV9098.0 VINYL TRIACETOXSILANE C₈H₁₂O₆Si Flashpoint: 88°C (190°F) store <5°C Crosslinker for moisture-cure silicone RTVs with greater liquid range for formulation, faster moisture-cure rate and better substrate adhesion properties than methyltriacetoxysilane HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water</p>	232.26	112-3 / 1 (10-13)	1.167	1.423
[4130-08-9] TSCA Reach preregistered HMIS: 3-2-1-X	2kg-kg: \$79.00	18kg-kg: \$48.00	225kg-kg: inquire	
 <p>SIV9112.0 VINYL TRIETHOXYSILANE C₈H₁₈O₃Si Flashpoint: 44°C (111°F) Vapor pressure, 20°: 5 mm Dipole moment: 1.69 Specific heat: 0.25 cal/g yc of treated glass surface: 25 mN/m Copolymerization parameters- e,Q; -0.42, 0.028 Specific wetting surface area: 412 m²/g Relative hydrolysis rate versus SIV9220.0, vinyltrimethoxysilane; 0.05 Couples fillers or fiberglass to resins Couples fillers or fiberglass to resins See VEE-005 for polymeric version HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water</p>	190.31	160-1	0.903	1.3960
[78-08-0] TSCA Reach preregistered HMIS: 1-2-1-X	2kg-kg: \$55.00	16kg-kg: \$29.50	180kg-kg: inquire	
 <p>SIV9209.0 VINYL TRIISOPROPENOXSILANE C₁₁H₁₈O₃Si Flashpoint: 73-5 / 12 Employed as a cross-linker and in vapor phase derivatization; byproduct is acetone HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water</p>	226.35	73-5 / 12	0.926	1.4373
[15332-99-7] TSCA Reach preregistered HMIS: 1-3-1-X	2kg-kg: \$210.00	15kg-kg: \$152.00	170kg-kg: inquire	



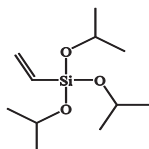
2.5 liter
(kg)



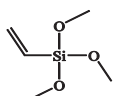
5 gallon or
19L cylinder (kg)



55 gallon
(kg)



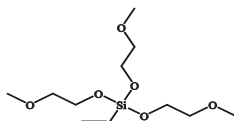
Name	MW	bp °C/mm (mp)	D ₄ ²⁰	n _D ²⁰
SIV9210.0 VINYLTRISISOPROPOXYSILANE C ₁₁ H ₂₄ O ₃ Si Copolymerization parameters- e,Q: -0.36, 0.031 Relative hydrolysis rate versus vinyltrimethoxysilane; 0.0015 Used for free-radical cure water-borne resin systems Adhesion promotor for vinyl acetate/ethylene latex HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water	232.39	179-81 Flashpoint: 51°C (124°F) Vapor pressure, 60°: 4 mm	0.8659	1.3961 ²⁵
[18023-33-1] TSCA Reach preregistered HMIS: 1-2-1-X	2kg-kg: \$140.00	15kg-kg: \$70.00	175kg-kg: inquire	



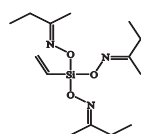
SIV9220.0 VINYLTRIMETHOXYSILANE C ₅ H ₁₂ O ₃ Si Viscosity: 0.6 cSt Vapor pressure, 20°: 9 mm Copolymerization parameters- e,Q: -0.38, 0.031 Employed in two-stage ¹ and one-stage ² graft polymerization/crosslinking for PE Copolymerizes with ethylene to form moisture crosslinkable polymers. ³ Converts arylselenyl bromides to arylvinylselenides. ⁴ Reacts with anhydrides to transfer both vinyl and methoxy and thus form the mixed diester. ⁵ Cross-couples w/ α-bromo esters to give α-vinyl esters in high ee. ⁶ 1. Scott, H. US Patent 3,646,155, 1972. 2. Swarbrick, P. et al. US Patent 4,117,195, 1978. 3. Isaka, T. et al. U.S. Patent 4,413,066, 1983. 4. Bhadra, S. et al. <i>J. Org. Chem.</i> 2010 , <i>75</i> , 4864. 5. Luo, F. et al. <i>J. Org. Chem.</i> 2010 , <i>75</i> , 5379. 6. Strotman, N. A.; Sommer, S.; Fu, G. C. <i>Angew. Chem., Int. Ed. Engl.</i> 2007 , <i>46</i> , 3556. See also VMM-010 for polymeric version HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water	148.23	123 Flashpoint: 28°C (82°F) TOXICITY: oral rat, LD50: 8,000 mg/kg Autoignition temperature: 235° Specific wetting surface area: 528 m ² /g	0.970	1.3930
[2768-02-7] TSCA Reach preregistered HMIS: 3-3-1-X	2kg-kg: \$48.00	16kg-kg: \$22.00	180kg-kg: inquire	



Vinylsilanes are used in PE and EPDM insulated wire and cable



SIV9275.0 VINYLTRIS(2-METHOXYETHOXY)SILANE C ₁₁ H ₂₄ O ₆ Si Vapor pressure, 108°: 2 mm Employed in peroxide graft-moisture crosslinking of polyethylene Relative hydrolysis rate versus SIV9220.0, vinyltrimethoxysilane; 0.50 Coupling agent for kaolin in EPDM/PE cable formulations. ¹ 1. Arkles, B. et al. <i>Modern Plastics</i> 1987 , <i>64(4)</i> , 138. HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water	280.39	284-6 Flashpoint: 115°C (239°F) TOXICITY: oral rat, LD50: 2,960mg/kg Autoignition temperature: 210°	1.0336 ²⁵	1.4271 ²⁵
[1067-53-4] TSCA Reach preregistered HMIS: 3-1-1-X	2kg-kg: \$58.00	18kg-kg: \$30.00	200kg-kg: inquire	



SIV9280.0 VINYLTRIS(METHYLETHYLKETOXIMINO)SILANE, tech-95 C ₁₄ H ₂₇ N ₃ O ₅ Si Neutral cross-linker/coupling agent for condensation cure silicones Byproduct: methylethylketoxime HYDROLYTIC SENSITIVITY: 7: reacts slowly with moisture/water	313.47	113 / 0.1 (-22)	0.982 ²⁵	1.465
[2224-33-1] TSCA Reach preregistered HMIS: 3-3-1-X	2kg-kg: \$90.00	16kg-kg: \$44.00	180kg-kg: inquire	

Polymeric Metal Alkoxides

Structure	Name	Metal content	Unit M.W.	Viscosity, cSt	Density
	PSI-021 POLY(DIETHOXYSILOXANE) <i>Ethylsilicate 40</i> [(C ₂ H ₅ O) ₂ SiO] Base for zinc-rich paints Binder for "lost wax" investment casting of refractory metals Crosslinker for two-component condensation cure (silanol) RTVs	20.5-21.5% Si (40-42% SiO ₂ equivalent) M.W.: 700-800	134.20	3-5	1.05-1.07
	[68412-37-3] TSCA	2kg-kg: \$30.00	18kg-kg: \$18.00	220kg-kg: inquire	
	PSI-026 POLY(DIMETHOXYSILOXANE) <i>Methylsilicate 51</i> [(CH ₃ O) ₂ SiO] Lower hazard potential than tetramethoxysilane Forms clear aerogels. ¹ 1. Tillotson, T.; et al. In Better Ceramics Through Chemistry IV; MRS Proc. 1990; Vol. 180, p.309.	26.0 27.0% Si (48-52% SiO ₂ equivalent)	106.15	6-9	1.14-1.16
	[25498-02-6] TSCA	2kg-kg: \$128.00	20kg-kg: \$92.50	200kg-kg: inquire	

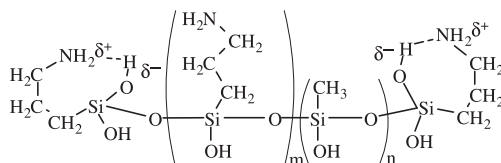
Polyamine Silanes

Structure	Name	MW	Viscosity	Density
	SSP-060 TRIMETHOXYSIPLYLPROPYL MODIFIED (POLYETHYLENIMINE) 50% in isopropanol ~20% of nitrogens substituted Employed as a coupling agent for polyamides. ¹ In combination with glutaraldehyde immobilizes enzymes. ² 1. Arkles, B.; et al. SPI 42nd Composite Inst. Proc., 21-C, 1987 2. Cramer, S.; et al. <i>Biotechnol. Bioeng.</i> 1989 , 33(3), 344.	1,500-1,800	125-175 cSt	0.92
	[136856-91-2] TSCA	2kg-kg: \$182.00	16kg-kg: \$96.00	180kg-kg: inquire
	SSP-065 DIMETHOXYSIPLYLMETHYLPROPYL MODIFIED (POLYETHYLENIMINE) 50% in isopropanol ~20% of nitrogens substituted Primer for brass	1,500-1,800	100-200 cSt	0.92
	[125441-88-5] TSCA	2kg-kg: \$277.50	16kg-kg: \$138.00	180kg-kg: inquire

Vinylalkoxysiloxane Polymers

Structure	Name	Wt% vinyl	Viscosity	Density	2kg-kg	18kg-kg	200kg-kg
	VEE-005 Vinylalkoxysiloxane Homopolymer Crosslinking agent for neutral cure RTVs	19-22	4-7 cSt	1.02	\$148.00	\$82.00	inquire
	[29434-25-1] TSCA						
	VMM-010 Vinylmethoxysiloxane Homopolymer Coupling agent in polyethylene for wire and cable applications Adhesion promoter for vinyl-addition cure RTVs	22-3	8-12 cSt	1.10	\$120.00	\$68.00	inquire
	[131298-48-1] TSCA						

Water-borne Silsesquioxane Oligomers



Code	Functional Group	Mole %	MW	Weight % in solution	Density	Viscosity, cSt	pH	3kg-kg	18kg-kg
WSA-7011	Aminopropyl	65-75	250-500	25-28	1.10	5-15	10-10.5	\$120.00	\$46.00
WSA-9911*	Aminopropyl	100	270-550	22-25	1.06	5-15	10-10.5	\$95.00	\$32.00
WSA-7021	Aminoethylaminopropyl	65-75	370-650	25-28	1.10	5-10	10-11	\$145.00	\$72.00
WSAV-6511**	Aminopropyl, vinyl	60-65	250-500	25-28	1.11	3-15	10-11	\$160.00	\$84.00

CAS * [29159-37-3] ** [207308-27-8]

Stable water solutions
 Primers for metals
 Additives for acrylic latex sealants
 Coupling agents for siliceous surfaces.¹
 1. Arkles, B.; et al. in "Silanes & Other Coupling Agents", ed. Mittal, K. L. p91. VSP, Utrecht, 1992.

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SID3368.0	DICHLOROSILANE
SID4120.0	DIMETHYLDICHLOROSILANE
SID4510.0	DIPHENYLDICHLOROSILANE
SID4630.0	DODECYLTRICHLOROSILANE
SIE4901.0	ETHYLTRICHLOROSILANE
SIM6504.0	METHYLDICHLOROSILANE
SIM6520.0	METHYLTRICHLOROSILANE
SIO6615.0	OCTADECYLDIMETHYLCHLOROSILANE
SIO6640.0	OCTADECYLTRICHLOROSILANE
SIO6713.0	OCTYLTRICHLOROSILANE
SIP6738.0	PHENYLMETHYLDICHLOROSILANE
SIP6810.0	PHENYLTRICHLOROSILANE
SIP6915.0	PROPYLTRICHLOROSILANE
SIT7085.0	TETRACHLOROSILANE
SIT8155.0	TRICHLOROSILANE
SIT8510.0	TRIMETHYLCHLOROSILANE
SIV9070.0	VINYLDIMETHYLCHLOROSILANE
SIV9084.0	VINYLMETHYLDICHLOROSILANE
SIV9110.0	VINYLTRICHLOROSILANE



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