

PROSILANE™ SC-8131

PHENYLTRIMETHOXYSILANE

PRODUCT DESCRIPTION

SC-8131, Phenyltrimethoxysilane is a silane coupling agent with a phenyl group and three methoxy functional groups attached to a silicon atom. It can be hydrolyzed and polycondensed in the presence of moisture, producing silanols and form an elastomer or hydrophobic layerthat can bond with inorganic surfaces, forming durable, water-resistant coatings. This compound is widely used in adhesives, coatings, sealants, and surface treatments.

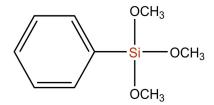
TYPICAL PRODUCT DATA*		
Property	Unit	Typical Value
CAS\$	-	2996-92-1
Molecular Weight	g/mol	198.29
Formula		С9Н14О3Si
Appearance	-	Colorless clear liquid
Boiling Point	°C	211
Flash Point	°C	92
Refractive Index	-	1.473
Density	g/cm ³	1.064
Purity	%	≥99%

^{*} These values are not intended to be used as specifications but as suggested characteristics

PACKAGING

The size of the available packages can be checked with Sales Department. SC-8131 is typically supplied in 200kg steel drums.

TECHNICAL DATA SHEET



TYPICAL FEATURES AND APPLICATIONS

SC-8131 reacts with inorganic materials and is used to modify the suface of inorganic fillers such as wollastonite and aluminum trihydroxide. It makes the surface of these inorganic fillers more hydrophobic and thus increases their dispersability in mineral-filled polymers.

S8-131 is especially suited for polymers that are processed at elevated temperatures.

SC-8131 reduces the viscosity of the polymer melt.

INFORMATION FOR USE

In many sol-gel applications SC-8131 is partially hydrolyzed to form a preproduct that can be further crosslinked using temperature. This pre-hydrolysis is often made in conjunction with alkyl silanes (SC-5132) or other organofunctional silanes (e.g. SC-3100), silicic acid esters, or even an aqueous silica sol.

SC-8131 reacts faster with water than SC-8132.

SHELF LIFE AND STORAGE

In the unopened original container SC-8131 has a shelf life of one year in a dry and cool place.

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ SAFETY DATA SHEET AND CONTAINER LABELS FOR SAFE USE, PHYSICAL, ENVIRONMENTAL, AND HEALTH HAZARD INFORMATION.

LIMITATIONS: Not intended for human injection. This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

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