

PROSILANE™ SC-8132

PHENYLTRIETHOXYSIANE

PRODUCT DESCRIPTION

SC-8132, Phenyltriethoxysilane is a silane coupling agent is a colourless, low-viscosity liquid. SiSiB® PC8132 is regarded as trifunctional since all three alkoxy groups can hydrolyze. SC-8132 also contains a phenyl group that exhibits excellent thermal stability and brings flexibility to sol-gel coating systems.

TYPICAL PRODUCT DATA*

Property	Unit	Typical Value
CAS#	-	780-69-8
Molecular Weight	g/mol	240.37
Formula		C ₁₂ H ₂₀ SiO ₃
Appearance	-	Colorless transparent liquid
Boiling Point	°C	233
Flash Point	°C	96
Refractive Index	-	1.472
Density	g/cm ³	0.996
Purity	%	≥98%

* 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-8132 is typically supplied in 190kg steel drums.

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.

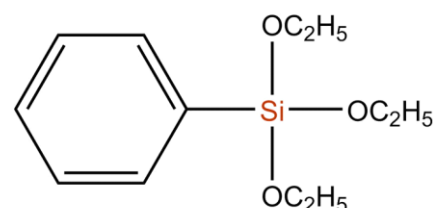
LIMITATIONS: Not intended for human injection. This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

Limited Warranty: Silsource Inc. warrants to Buyer that for a period of 12 months from the date of manufacture of the products, such products will materially conform to Silsource Inc.'s specifications in effect as of the date of manufacture. This warranty does not apply where the products have (a) been subjected to abuse, misuse, neglect, negligence, accident, improper testing, improper installation, improper storage, improper handling, abnormal physical stress, abnormal environmental conditions, or use contrary to any instructions issued by Silsource Inc.; (b) been reconstructed, repaired, or altered by persons other than Silsource Inc. or its authorized representatives; or (c) been used with any third-party product or hardware that has not been previously approved in writing by Silsource Inc. Buyer's exclusive remedy for breach of the limited warranty shall be a refund of the purchase price or replacement of the product, at Silsource Inc.'s sole discretion.

Disclaimer: EXCEPT FOR THE EXPRESS LIMITED WARRANTY SET OUT ABOVE, SILSOURCE INC. MAKES NO WARRANTY WHATSOEVER WITH RESPECT TO THE GOODS, INCLUDING ANY (A) WARRANTY OR CONDITION OF MERCHANTABILITY; (B) WARRANTY OR CONDITION OF FITNESS FOR A PARTICULAR PURPOSE; (C) WARRANTY OR CONDITION OF TITLE; OR (D) WARRANTY AGAINST INFRINGEMENT OF INTELLECTUAL PROPERTY RIGHTS OF A THIRD PARTY, WHETHER EXPRESS OR IMPLIED AND WHETHER ARISING BY LAW, COURSE OF DEALING, COURSE OF PERFORMANCE, USAGE OF TRADE, OR OTHERWISE. BUYER ACKNOWLEDGES THAT IT HAS NOT RELIED UPON ANY REPRESENTATION, CONDITION, OR WARRANTY MADE BY SILSOURCE INC., OR ANY OTHER PERSON ON SILSOURCE INC.'S BEHALF, EXCEPT AS SPECIFICALLY PROVIDED ABOVE.

VERSION: 1 Last updated: 24 April 2024

TECHNICAL DATA SHEET



TYPICAL FEATURES AND APPLICATIONS

SC-8132 is used to modify the surface 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.

SC-8132 reduces the viscosity of the polymer melt. In many sol-gel applications, SC-8132 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-8132 reacts slower with water than SC-8131.

INFORMATION FOR USE

SC-8132 is especially suited for polymers that are processed at elevated temperatures.

SC-8132 can be used as a crosslinker in high-temperature silicone elastomers.

SC-8132 can be used as a stereo-regulator for Ziegler-Natta-catalysts to increase the isotactic index in polypropylene.

SHELF LIFE AND STORAGE

In the unopened original container SC-8132 has a shelf life of one year in a dry and cool place.