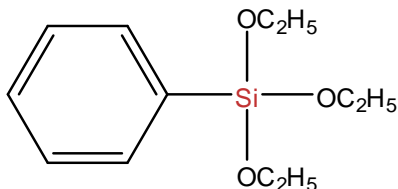


# SiSiB<sup>®</sup> PC8132

## Phenyltriethoxysilane

### CHEMICAL STRUCTURE



### INTRODUCTION

SiSiB<sup>®</sup> PC8132 is a colourless, low-viscosity liquid. SiSiB<sup>®</sup> PC8132 is regarded as trifunctional since all three alkoxy groups can hydrolyze. SiSiB<sup>®</sup> PC8132 also contains a phenyl group that exhibits excellent thermal stability and brings flexibility to sol-gel coating systems.

### TYPICAL PHYSICAL PROPERTIES

CAS No.	780-69-8
EINECS No.	212-305-8
Formula	C <sub>12</sub> H <sub>20</sub> SiO <sub>3</sub>
Molecular Weight	240.37
Boiling Point	233°C [760mmHg]
Flash Point	96°C
Color and Appearance	Colorless transparent liquid
Density <sub>25/25°C</sub>	0.996
Refractive Index	1.4718
Active Content	Min. 98.0%

### APPLICATIONS

SiSiB<sup>®</sup> PC8132 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. SiSiB<sup>®</sup> PC8132 is especially suited for polymers that are processed at elevated temperatures. SiSiB<sup>®</sup> PC8132 reduces the viscosity of the polymer melt.

In many sol-gel applications SiSiB<sup>®</sup> PC8132 is partially hydrolyzed to form a preproduct

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## *Phenyltriethoxysilane*

that can be further crosslinked using temperature. This pre-hydrolysis is often made in conjunction with alkyl silanes (SiSiB<sup>®</sup> PC5132) or other organofunctional silanes (e.g. SiSiB<sup>®</sup> PC3100), silicic acid esters, or even an aqueous silica sol.

SiSiB<sup>®</sup> PC8132 reacts slower with water than SiSiB<sup>®</sup> PC8131.

SiSiB<sup>®</sup> PC8132 can be used as a crosslinker in high-temperature silicone elastomers

SiSiB<sup>®</sup> PC8132 can be used as a stereo-regulator for Ziegler-Natta-catalysts to increase the isotactic index in polypropylene. (A donor)

### PACKING AND STORAGE

SiSiB<sup>®</sup> PC8132 is supplied in 190Kg steel drum.

In the unopened original container SiSiB<sup>®</sup> PC8132 has a shelf life of one year in a dry and cool place.

### NOTES

All information in the leaflet is based on our present knowledge and experience. We reserve the right to make any changes according to technological progress or further developments. Performance of the product described herein should be verified by testing.

We specifically disclaim any other express or implied warranty of fitness for a particular purpose or merchantability. We disclaim liability for any incidental or consequential damages.

Please send all technical questions concerning quality and product safety to: [silanes@SiSiB.com](mailto:silanes@SiSiB.com).