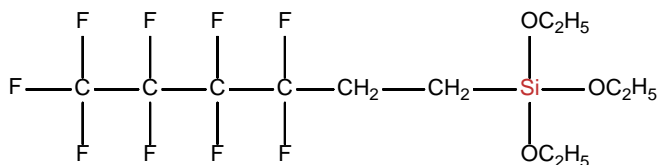


SiSiB[®] PC9762

1H,1H,2H,2H-Nonafluorohexyltriethoxysilane

CHEMICAL STRUCTURE



INTRODUCTION

SiSiB[®] PC9762 is a bifunctional silane possessing hydrolysable inorganic alkoxysilyl groups and a fluoroalkyl chain.

In the presence of water, the alkoxy groups of SiSiB[®] PC9762 will hydrolyze, producing reactive silanol groups that can be combined with various inorganic substrates, forming Si-O-base bonds on the surface, and further forming two-dimensional and three-dimensional network structures. .

Fluoroalkyl functional groups provide a low-energy surface but extremely poor wettability, providing excellent hydrophobic and oleophobic surface properties.

TYPICAL PHYSICAL PROPERTIES

CAS No.	102390-98-7
EINECS No.	468-970-1
Formula	C ₁₂ H ₁₉ F ₉ O ₃ Si
Molecular Weight	410.35
Boiling Point	96°C / 15mmHg
Flash Point	>65°C
Color and Appearance	Colorless clear liquid
Density _{25/25°C}	1.241
Refractive Index	1.3470 [25°C]
Min. Purity	98.0%

APPLICATIONS

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SiSiB[®] PC9762 can be applied in a wide variety of commercially important applications include:

- Treatment of automotive glass
- Anti-soiling, water-repellent, UV-resistant coating of float glass
- Additive for sol-gel coatings
- Anti-graffiti and easy-to-clean coatings
- Adhesion promoter for fluoropolymers (paints, coatings etc.)
- Synthesis of fluorosilicones
- Coating of pigments
- CVD processes

PROCESSING

Surfaces must be absolutely clean and degreased before treatment! The surface can be ideally activated with cerium oxide.

- Primer treatment (e.g. automotive glass)
1. Dilute SiSiB[®] PC9762 silane to a concentration of about 1% (wt) with a suitable solvent (for example: iso-propanol),
 2. Add 2-10% deionized water of pH 3 (adjusted with acetic acid or hydrochloric acid solution).
 3. Stir the solution for about 5 hours and then it is ready to use, but must be used within one day.

The substrate can be treated by dipping, spraying, curtain coating, painting and polishing. The resulting polysiloxane film is completely invisible and does not cause any optical damage to the substrate.

PACKING AND STORAGE

SiSiB[®] PC9762 is supplied in net weight 1Kg bottle, 5Kg/25Kg pail.

In the unopened container SiSiB[®] PC9762 has a shelf life of one year.

NOTES

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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.