

SiSiB® PC5882 SILANE

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CHEMICAL NAME

Octodecyltriethoxysilane [Customized]

CHEMICAL STRUCTURE

$$\begin{array}{c|c}
& OC_2H_5 \\
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OC_2H_5
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INTRODUCTION

SiSiB® PC5882 is a long-chain alkyl silane, commonly called OTES. It is easy to be dissolved in ordinary organic solvent, e.g. hydrocarbon, ether, ketone, etc. It is easy to be hydrolyzed and condensed, generate polysiloxane.

SiSiB® PC5882 is used for preparing hydrophobic coatings and self-assembled monolayers. It is sensitive toward water, irreversibly degrading to a siloxane polymer. It places a C₁₈H₃₉SiO₃ "cap" on oxide surfaces. The formation of OTMS monolayers is used for converting hydrophilic surfaces to hydrophobic surfaces, e.g. for use in certain areas of nanotechnology and analytical chemistry

TYPICAL PHYSICAL PROPERTIES

CAS No.	7399-00-0
EINECS No.	230-995-0
Formula	C ₂₄ H ₅₂ O ₃ Si
Molecular Weight	416.76
Boiling Point	165°C [760mmHg]
Flash Point	195°C
Color and Appearance	Colorless transparent liquid
Density _{25/25°C}	0.87
Refractive Index	1.4364[25°C]
Purity:	95.0% by GC

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SiSiB[®] PC5882 SILANE

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APPLICATIONS

Coupling Agent

Mainly be used to deal with inorganic materials, e.g. glass, silica, Al₂O₃, Kaolin, pottery and porcelain, mica, SiC, talcum powder etc., in order to improve the property of blending with organic matter and water-proof, enhancing the mechanical property of the products.

Fog-proof Preparation of Glass

- a) Protect blank glass and coated glass (optical antireflex coating, vacuum antireflex coating, reflective coating)
- b) Protect optical parts or precision instrument with graduations and metal frames.

Protect Historical Relics or Other Products from Water

Protect historical relics (esp. outdoor historical relics) from corrosion, freeze or efflorescence.

PACKING AND STORAGE

Customized product packing is 100ml, 250ml, 500ml, 1L and 5L bottle. Industrialized product packing is 210L steel drum or 1000L IBC tote.

In the unopened original container SiSiB® PC5882 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.

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Please send all technical questions concerning quality and product safety to: silanes@SiSiB.com.

