



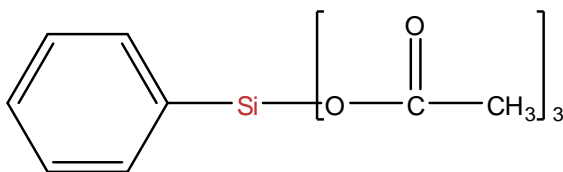
SiSiB® PC7980 SILANE

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CHEMICAL NAME

Phenyltriacetoxysilane [Developmental]

CHEMICAL STRUCTURE



INTRODUCTION

SiSiB® PC7980 is a clear to yellowish liquid with acrid odor of acetic acid (vinegar). It hydrolyzes in the presence of moisture (acetic acid is released) to form silanols, which can react with themselves to produce siloxanes or bind to inorganic substrates.

TYPICAL PHYSICAL PROPERTIES

CAS No.	18042-54-1
EINECS No.	241-952-9
Formula	C ₁₂ H ₁₄ O ₆ Si
Molecular Weight	1282.32
Boiling Point	291°C [760mmHg]
Flash Point	108°C
Color and Appearance	Colorless or yellowish transparent liquid
Density _{25/25°C}	1.19
Refractive Index	1.495
Active Content	95.0% by GC

APPLICATIONS

Acetoxy silanes are more reactive than alkoxy silanes. Acetoxy silanes are frequently used as one-component mixtures to make RTV-1 silicone sealants. These mixtures have

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SiSiB[®] PC7980 SILANE

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an excess of multi-functional acetoxy silane added to silanol-terminated PDMS, which results in a PDMS chain with acetoxy groups at the ends. When this compound is exposed to moisture some acetoxy groups are hydrolyzed and self-condense or react with other acetoxy and rapid crosslinking takes place. Acetic acid formation is one of the driving forces of this reaction.

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[®] PC7980 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.

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