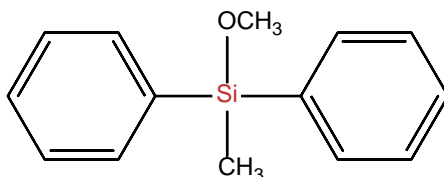


SiSiB® PC8511 SILANE

CHEMICAL NAME

Methoxy(methyl)diphenylsilane

CHEMICAL STRUCTURE



INTRODUCTION

SiSiB® PC8511 Diphenylmethoxymethylsilane is a high-performance organosilicon functional material that combines the high heat resistance and chemical stability of phenylsilane with the reactivity of the methoxy functional group. It serves as an effective capping agent in phenyl-based silicone resins, phenyl silicone oils, and silicone rubbers. It is also widely used as a key raw material in the production of silicone resins, silicone oils, and is also employed as a crosslinking agent and surface treatment additive to enhance durability in composite materials.

CAS NUMBER

18407-48-2

PHYSICAL PROPERTIES

Formula	C ₁₄ H ₁₆ OSi
Molecular Weight	228.36
Boiling Point	275°C
Color and Appearance	Colorless transparent liquid
Density _{25/25°C}	1.06
Refractive Index _{20°C}	1.5315
Min. Purity	99.0%

Note: These values are typical and are not intended for use as specifications.

APPLICATIONS

SiSiB® PC8511 is a key organosilicon compound primarily utilized as an end-capping agent in silicone polymer synthesis, where it regulates molecular weight and improves the stability and chemical properties of the final polymers.

SiSiB® PC8511 SILANE

It is essential in the production of phenyl-based silicone resins, contributing to enhanced thermal stability, mechanical strength, and chemical resistance. These resins are widely applied in high-performance coatings, adhesives, and electrical insulation systems.

SiSiB® PC8511 is also used in the formulation of phenyl silicone oils, which exhibit excellent thermal and oxidative stability, low volatility, and are well-suited for high-temperature lubricants, hydraulic fluids, and dielectric applications.

Furthermore, it plays a critical role in the production of silicone rubbers, where the phenyl functionality improves aging resistance and tear strength, ensuring long-term elasticity under extreme temperature conditions.

PACKING

SiSiB® PC8511 is available in a 200Kg steel drum.

STORAGE

SiSiB® PC8511 may be stored up to one year in a sealed container. Containers should be stored in a cool, dry area. Extended storage at elevated temperatures or exposure to direct heat or sunlight could reduce product life. Keep containers sealed when not in use.

HANDLING

This document does not contain the product safety information required for safe use. Before handling, please refer to the product and safety data sheets, as well as container labels, for information on safe usage, physical hazards, and health risks. Safety Data Sheet is available on the website, from the distributor, or by contacting SiSiB customer service.

NOTE

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.

Sustainable Innovation for a Better Future



SiSiB® PC8511 SILANE