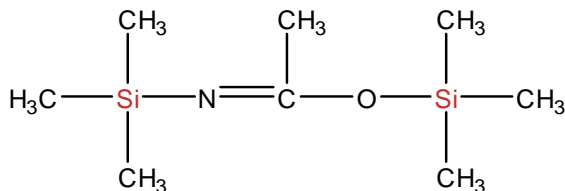


SiSiB[®] PC9235

N,O-Bis(trimethylsilyl)acetamide

CHEMICAL STRUCTURE



INTRODUCTION

SiSiB[®] PC9235 (BSA) is a colorless to slightly yellowish liquid which is soluble in many nonpolar and polar aprotic solvents.

SiSiB[®] PC9235, N,O-bis(trimethylsilyl)-acetamide is an effective silylating agent. It is used in the pharmaceutical and in the chemical industry. Typically the silylating reaction with BSA results in neutral by-products only.

TYPICAL PHYSICAL PROPERTIES

CAS No.	10416-59-8
EINECS No.	233-892-7
Formula	C ₈ H ₂₁ NOSi ₂
Molecular Weight	203.43
Boiling Point	73°C [35mmHg] 162°C [760mmHg]
Flash Point	42°C
Melting Point	24°C
Color and Appearance	Clear to yellowish clear liquid
Density _{25/25°C}	0.832
Refractive Index	1.418 [25°C]
Min. Purity	98.0%

APPLICATIONS

The trimethylsilyl group is a frequently utilized monofunctional blocking group for protic organic and inorganic materials.

As the product eliminated during the silylation is neutral acetamide, SiSiB[®] PC9235 can

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be preferably used for substrates which are acid- or base-sensitive.

SiSiB[®] PC9235 can be used for blocking and protection of hydroxyl groups in natural products, e.g. amino acids, carbohydrates

SiSiB[®] PC9235 can be used for blocking and protection of functional groups in organic intermediates.

The silylated derivatives show improved chemical stability than the original compounds and allow chemical reactions which otherwise would not be possible.

SiSiB[®] PC9235 can be used for formation of derivatives of H-acid compounds for analysis

The silylated derivatives are volatile and can therefore be determined by gas chromatography

Deblocking is preferably carried out by means of hydrolysis, giving high yields. In some cases, thermal elimination of the trimethylsilyl group is possible.

PACKING AND STORAGE

SiSiB[®] PC9235 is supplied in 160Kg steel drum.

In the unopened original container SiSiB[®] PC9235 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.