



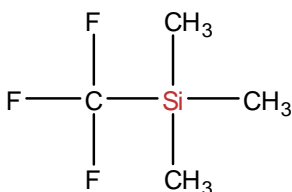
SiSiB® PC9795 SILANE

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CHEMICAL NAME

Trifluoromethyltrimethylsilane

CHEMICAL STRUCTURE



INTRODUCTION

Trifluoromethyltrimethylsilane (often called Ruppert's reagent or Ruppert-Prakash reagent) is a reagent used in organic chemistry for the introduction of the trifluoromethyl group. The compound was first prepared in 1984 in Ingo Ruppert's group at the University of Bonn and introduced into the vocabulary of organic chemistry by the group of Surya Prakash at the University of Southern California five years later.

SiSiB® PC9795 is a colorless clear liquid.

TYPICAL PHYSICAL PROPERTIES

CAS No.	81290-20-2
EINECS No.	617-210-9
Formula	C ₄ H ₉ F ₃ Si
Molecular Weight	142.22
Boiling Point	49°C [760mmHg]
Flash Point	-10°C
Color and Appearance	Colorless clear liquid
Density _{25/25°C}	0.962
Refractive Index	1.3305 [25°C]
Purity:	Min.99.0% by GC

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APPLICATIONS

Upon treatment with a source of fluoride the compound forms an -ate complex that attacks aldehydes and ketones to form trifluoromethyl methanols and esters to form trifluoromethyl ketones. It is thus a substitute for trifluoromethyl lithium, which, unlike higher perfluoroalkyllithium compounds, is not isolable since even at low temperature it rapidly decomposes to yield lithium fluoride and difluorocarbene.

PACKING AND STORAGE

SiSiB[®] PC9795 is supplied in net weight 1Kg, 5Kg bottle.

In the unopened original container SiSiB[®] PC9795 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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