



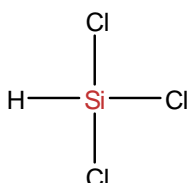
# SiSiB<sup>®</sup> PC5030 SILANE

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## CHEMICAL NAME

Trichlorosilane

## CHEMICAL STRUCTURE



## INTRODUCTION

Trichlorosilane is a chemical compound containing silicon, hydrogen, and chlorine. At high temperatures, it decomposes to produce silicon, and therefore purified trichlorosilane is the principal source of ultrapure silicon in the semiconductor industry. In water, it rapidly decomposes to produce a silicone polymer while giving off hydrochloric acid. Because of its reactivity and wide availability, it is frequently used in the synthesis of silicon-containing organic compounds.

SiSiB<sup>®</sup> PC5030 is a clear liquid with acrid odor of hydrogen chloride.

## TYPICAL PHYSICAL PROPERTIES

CAS No.	10025-78-2
EINECS No.	233-042-5
Formula	HSiCl <sub>3</sub>
Molecular Weight	135.45
Boiling Point	31.9°C [760mmHg]
Flash Point	-13°C
Color and Appearance	Clear liquid with acrid odor of hydrogen chloride
Density <sub>25/25°C</sub>	1.342
Refractive Index	1.402[25°C]
Purity:	99% by GC

**Power Chemical**  
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# SiSiB<sup>®</sup> PC5030 SILANE

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## APPLICATIONS

SiSiB<sup>®</sup> PC5030 is an important raw material for many silane coupling agents.

SiSiB<sup>®</sup> PC5030 is an intermediate in the production of ultrapure silicon in the semiconductor industry. Chlorosilanes obtained from crude silicon are purified by fractional distillation techniques and then reduced with hydrogen to give silicon of 99.99999999 % (11 nines) purity.

SiSiB<sup>®</sup> PC5030 is an important raw material for polycrystalline silicon.

## PACKING AND STORAGE

SiSiB<sup>®</sup> PC5030 is supplied in 210L steel drum or 1000L IBC container.

In the unopened original container SiSiB<sup>®</sup> PC5030 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](mailto:silanes@SiSiB.com).

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