

Organosilane S311

Product Description

Chemical Name: gamma-Mercaptopropylmethyldimethoxysilane

Synonym: 3-Mercaptopropylmethyldimethoxysilane

3-Methyldimethoxysilylpropane-1-thiol

Chemical Structure:



Empirical Formula C₆H₁₆O₂SSi

Molecular Weight 180.34

CAS No. 31001-77-1

EINECS No. 250-426-8

Typical Physical Properties:

Appearance	Colorless or slight yellowish liquid
Specific Gravity, (25/25°C)	1.000
Refractive Index, n _D (25°C)	1.4480
Flash Point*	93°C (199°F)
Boiling Point	204°C

* Determined by ASTM Method D93 using the Pensky-Martens Closed Cup.

Commodity Specification

Appearance	Colorless or slight yellowish liquid
Content, (by GC)	98% min
Specific Gravity, (25/25°C)	0.991—1.000
Refractive Index, n _D (25°C)	1.4450—1.4510

Application Direction

General Information: It is a mercapto-functional coupling agent that can produce good coupling between rubber and inorganic filler, and significantly improve mechanical properties of the material treated. It is particularly suitable for light colored products.

Suitable Polymers: Polysulfide, Polyolefin, Polybutadiene, Polyurethane, Polyethylene, Butyl, Epoxy, Phenolic, etc.

Packing & Storage

Normally packed in 200 kg net drums UN approved, sea-worthy for exporting

Stored in cool and dry air-flowing area preventing sunlight

Safety Materials

Material Safety Data Sheet (MSDS) is available separately

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. ONICHEM shall not be held liable for any damage resulting from the use of the above product. The users are suggested to select the suitability of the products and methods of application.