

## Organosilane M311

### Product Description

Chemical Name: *gamma*-Methacryloxypropylmethyldimethoxysilane (CAS: 14513-34-9)

Synonym: 3-Methacryloxypropylmethyldimethoxysilane

3-(methyldimethoxysilyl) propyl methacrylate

Molecular Formula: C<sub>10</sub>H<sub>20</sub>O<sub>4</sub>Si

Molecular Weight: 232.4

### Typical Physical Properties:

Appearance	Colorless to pale yellowish liquid
Specific Gravity, (25/25°C)	1.000
Refractive Index, (25°C)	1.429
Flash Point*	115°C
Boiling Point, (0.35 mm Hg)	65°C

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

### Commodity Specification

Appearance	Colorless to pale yellowish liquid
Content, (by GC)	97% min
Specific Gravity, (25/25°C)	0.970—1.020
Refractive Index, (25 °C)	1.4280—1.4420

### Application Direction

General Information: It is a methacrylic-functional silane that is used as a coupling agent to improve adhesion of free radical cured resins, dry and wet flexural and compressive strength of composites, the physical and electrical properties of glass-reinforced and mineral-filled thermosetting resins. It is also used to modify surfaces by copolymerizing or grafting, as the additives for paints and coatings to improve the stability and lightness.

Suitable Polymers: Acrylic, Thermoset/Thermoplastic Resins, Silicone, Butyl, Polyester, Polyether, Polyolefin, 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.