

## Organosilane AE311

### Product Description

Chemical Name: N-(beta-aminoethyl)-gamma-aminopropylmethyldimethoxysilane

Synonym: N-(2-aminoethyl)-3-aminopropylmethyldimethoxysilane

N-(3-(methyldimethoxysilyl)propyl) ethylenediamine

Chemical Structure:



Empirical Formula

C<sub>8</sub>H<sub>22</sub>N<sub>2</sub>O<sub>2</sub>Si

Molecular Weight

206.40

CAS No.

3069-29-2

EINECS No.

221-336-6

Typical Physical Properties:

Appearance	Colorless to light yellowish liquid
Specific Gravity, (20/20°C)	0.980
Refractive Index, (25°C)	1.4450
Boiling Point	265°C
Flash Point*	93°C

\* Determined by ASTM Method D 93 using the Pensky-Martens closed cup.

### Commodity Specification

Appearance	Colorless to light yellowish liquid
Content (%), (by GC)	97% min, 95% min
Specific Gravity, (20/20°C)	0.960—0.980
Refractive Index, n <sub>D</sub> (25°C)	1.4400—1.4500

### Application Direction

**General Information:** It is a diamine functional silane that find use as a coupling agent providing superior elongation, flexibility and spreading at the interface of polymers. It is used to promote adhesion between resins that react with amino groups and the surfaces of glass, mineral, metal, etc. Its reduced alkoxy functionality is also useful in waterborne systems by providing lower reactivity and therefore higher stability in the aqueous environment.

**Suitable Polymers:** Acrylic, Silicone, Epoxy, Furan, Silylated Polyether, Silylated Polyurethane, Melamine, Urea-formaldehyde, Phenolic, Polyurethane, PVB, 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.