



## Technical Data Sheet

### Capatue™ SCA-V71M

#### Abstract

**SCA-V71M** is a vinyl functional silane making them suitable to be used as a crosslinker in making crosslinking organic polymers. It is also recommended for chain extension of RTV or other silane or OH functional polymer.

It is the fastest hydrolyzing rate among vinyl series silanes.

#### Chemical Name

Vinyltrimethoxysilane

#### Synonyms

(Trimethoxysilyl)ethylene;

Ethenyltrimethoxysilan;

Trimethoxy(vinyl)silane

#### CAS Registry Number

2768-2-7

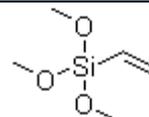
#### EINECS

220-449-8

#### Molecular Formula

$C_5H_{12}O_3Si$

#### Molecular Structure



#### Molecular Weight

148.23

#### Equivalents

| Product         | Supplier                             |
|-----------------|--------------------------------------|
| Silquest® A-171 | Momentive (formerly OSi Specialties) |
| Z-6300          | Dow Corning                          |
| VTMO            | Evonik (formerly Degussa)            |
| XL 10           | Wacker                               |

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|                |   |
|----------------|---|
| KBM-1003       | Shin-Etsu                               |
| Sila-Ace® S210 | Chisso                                  |
| A4917          | UCT (United Chemical Technologies, Inc) |

### Typical Properties

| Index   | Value   |
|---|---|
| Appearance  | Colorless, transparent liquid   |
| GC Purity, %  | >99   |
| Specific Gravity ( $\rho_{20}$ ), g/cm <sup>3</sup> | 0.960   |
| Boiling Point (760mmHg), °C                         | 122   |
| Refractive Index ( $n_D^{25}$ )                     | 1.3900  |
| Flash Point, °C                                     | 28  |
| Solubility  | Soluble in alcohol, ketone, aether, benzene, most aliphatic esters, hydrolysis releases methanol. |

### Applications and Performance

1. Silane crosslink polymers: This vinyl silane can also grafted to select unsaturated polymers such as PE, PET and Styrene-Butadiene co-polymer, via moisture cure mechanism. These vinyl silane crosslinked polymers represent good resistant to high temperature and excellent mechanic strength.
2. Emulsion polymerization: As a monomeric vinyl functional silane in vinyl, vinyl acrylic and acrylic resin, this vinyl silane can be added as monomers during emulsion during polymerization to form silane modified latexes. The silane in such latexes functions as crosslinkers, forming very stable Si-O-Si chain.
3. Adhesives, sealants and hot melt: Excellent adhesion to a wide range of inorganic substrates such as metal, glass and concrete, the suitable resins include acrylic, vinyl and vinyl acrylic.

### Packing

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The regular packing of this product is 25kg plastic pail, 200L steel drums and 1000L immediate bulk container.

### Storage and Shelf Life

Should be stored in dry, cool, ventilated room; keep away from water, moisture, high temperature and fire. This product has a shelf life of at least 12 months if stored in tightly closed original container at room temperature.

If this product is kept beyond the shelf life recommend on the product label, it is not necessarily unusable, but a quality control should be performed on the properties relevant to the application.

### Product Safety and Handling

When considering the use of any Capatue products in a particular application, you should read our latest Material Safety Data Sheets (MSDS) thoroughly for handling instructions, personal protective equipment if necessary, other safety issue and toxicological data as well as for information on proper transportation, storage and use to ensure that the use you intend can be accomplished safely. Our latest Material Safety Data Sheets (MSDS) and other product safety information are available at [www.capatue.com](http://www.capatue.com) or upon request, from our customer service department.

Use of other material in conjunction with Capatue products may require addition precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

**This product is for industry use only; it is neither tested nor represented as suitable for food, medical or pharmaceutical uses.**

### Limited Warranty Information

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that Capatue's products are safe, effective, and fully satisfactory for the intended end use.

Suggestions of use shall not be taken as inducements to infringe any patent.

**Capatue's sole warranty is that the product will meet the Capatue sales specifications in effect at the time of shipment.**

**Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.**

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Customer must do enough tests before their regular production to ensure that our product is suitable for their specific application.