



Technical Data Sheet

Capatue™ SCA-K02W

Abstract

SCA-K02W is a new type organo-functional silane which contains 2 silyl groups, this unique structure enable it to have a better adhesion to dry/wet surfaces, stronger and weather resistance bond.

Chemical Name

1,2-Bis(trimethoxysilyl)ethane

Synonyms

3,3,6,6-Tetramethoxy-2,7-dioxa-3,6-disilaoctane

CAS Registry Number

18406-41-2

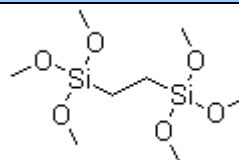
EINECS

242-285-6

Molecular Formula

$C_8H_{22}O_6Si_2$

Molecular Structure



Molecular Weight

270.43

Equivalent

| Product | Supplier |
|----------|-------------|
| X1-6145A | Dow Corning |

Typical Properties

| Index | Value |
|-------|-------|
|-------|-------|

| | |
|-------------------|---------|
| Color, Pt-Co | ≤ 25 |
| GC Purity | ≥ 95 |
| Density | 1.068 |
| Boiling point, °C | 103~104 |
| Flash point, °C | 103 |
| Water solubility | REACTS |

Applications and Performance

1, 2-Bis(trimethoxysilyl)ethane (CAS No. 18406-41-2), Silane coupling agent SCA-K02W, has some application as below:

1. RTV silicone sealants: To enhance the adhesion to the dry or wet surfaces and could form a stronger and weather resistance bond.

2. Metal surface treatment: The toxic properties of chromates have caused an environmental demand on replacement of the chromium (VI) compound coating processes (chromating). One of the suggested methods is a silane coating. SCA-K02W with bis-silyl functional has six hydrolyzable groups and are believed to be more crosslinked than triand tetra-functional analogs. The enhanced crosslinking leads to better barrier properties in anticorrosion applications.

Packing

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 18 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

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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 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.

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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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