

Technical Data Sheet

Capatue™ SCA-A10T

Abstract

SCA-A10T is an amino silane with dimethoxy group, this structure let it have a good stability in water borne system compared to other trialkoxy silane. It is also an amino functional silane that may be used over a broad range of applications. It is a main material of synthesizing textile softener, amino silicone oil, with D4. This product is used to promote adhesion between inorganic and organic surface, fillers or reinforcements and resins that react with amino groups.

Chemical Name

3-(Dimethoxymethylsilyl)propylamine

Synonyms

3-Aminopropylmethyldimethoxysilane;
 3-(Dimethoxymethylsilyl)propan-1-amine

CAS Registry Number

3663-44-3

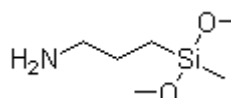
EINECS

222-919-8

Molecular Formula

$C_6H_{17}NO_2Si$

Molecular Structure



Molecular Weight

163.29

Equivalents

Product	Supplier
Silquest® A-2110	Momentive (formerly OSi Specialties)
KBM-902	Shin-Etsu

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**Typical Properties**

Index	Value
Appearance	Colorless, transparent liquid
Specific Gravity (ρ_{20}), g/cm ³	0.945
Boiling Point (760mmHg), °C	200
Refractive Index (n_D^{25})	1.4200
Solubility	Soluble in water (with reaction), alcohol and aromatic and aliphatic hydrocarbons. Ketones are not recommended diluents.

Applications and Performance

1. Sealants: addition to one and two part silicone crosslinked sealants and polysulfide sealants, plastisol sealants improves adhesion to variety of substrates, including glass, metal, concrete and other inorganic surfaces.
2. Molding compounds: As an additive in phenolic and epoxy molding compounds, reduces the water absorption of molded composites. This, in turn, leads to improved wet electrical properties, particularly at low frequencies.
3. A main material with D4 to synthesize amino silicone oil, a new type textile softener.

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 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.

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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 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.

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Capatue disclaims liability for any incidental or consequential damages.

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