

Technical Data Sheet

Capatue™ SCA-A69M

Abstract

SCA-A69M is a versatile amino functional coupling agents used over a broad range of applications to provide superior bonds between inorganic substrates and organic polymers. It contains phenyl and amino functionalities in the same molecule. It is an extremely effective adhesive promoter for many filled and reinforced resin system.

It is a versatile adhesion promoter, particularly for resin systems that will react with a secondary amino group, such as isocyanates, acrylates, epoxies, phenolics and RTV silicones. With its functional phenyl group this silane is especially useful when the resin base composites material must withstand higher temperatures; e.g., in phenolic resin/fiberglass composites.

Chemical Name

N-[3-(Trimethoxysilyl)propyl]aniline

Synonyms

3-(Phenylamino)propyltrimethoxysilane

CAS Registry Number

3068-76-6

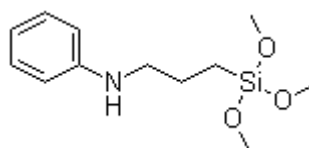
EINECS

221-328-2

Molecular Formula

$C_{12}H_{21}NO_3Si$

Molecular Structure



Molecular Weight

255.39

Equivalents



Silquest® Y-9669	Momentive (formerly OSi Specialties)
Z-6883	Dow Corning
KBM-573	Shin-Etsu

Typical Properties

Index	Value
Appearance	Colorless to yellowish, transparent liquid.
GC Purity, %	≥ 96
Specific Gravity (ρ_{25}), g/cm ³	1.070
Boiling Point (760mmHg), °C	310
Refractive Index (n_D^{25})	1.506
Solubility	Completely and immediately soluble in alcohol, aromatic and aliphatic hydrocarbons. Ketones are not recommended diluents.

Applications and Performance

SCA-A69M significantly improves adhesion between inorganic surfaces and polymers that can react with a secondary amine. Evaluation is recommended for such polymers as urethanes, epoxies, acrylates and phenolics that must adhere to inorganic substrates like glass, metal, fiberglass and particulates fillers. Applications include adhesives and sealants, coatings, glass fiber sizes and finishes, primers and foundry sand binders.

Compared to the regular amino silane like SCA-A10E, SCA-A69M has a very excellent high-temperature performance. So it is an optimal silane which be involved in high-temperature exposure like glass fiber reinforced phenolic resin laminate.

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 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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