

Technical Data Sheet

Capatue™ SCA-A30M

Abstract

SCA-A30M is a triamino-functional propyltrimethoxysilane. It is a versatile amino functional coupling agents used over a broad range of applications to provide superior bonds between inorganic substrates and organic polymers. The primary amine function reacts with a wide array of thermoset, thermoplastic and elastomeric materials.

Chemical Name

3-[2-(2-Aminoethylamino)ethylamino]propyl-trimethoxysilane

Synonyms

2-[2-(3-Trimethoxysilylpropylamino)ethylamino]ethylamine;
 (3-(Trimethoxysilyl)propyl)diethylenetriamine

CAS Registry Number

35141-30-1

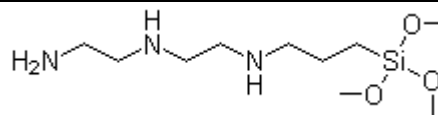
EINECS

252-390-9

Molecular Formula

$C_{10}H_{27}N_3O_3Si$

Molecular Structure



Molecular Weight

265.43

Equivalents

Product	Supplier
Silquest® A-1130	Momentive (formerly OSi Specialties)
AY43-009	Dow Corning
TRIAMO	Evonik (formerly Degussa)
T2910	UCT (United Chemical Technologies, Inc)

[Http://www.capatue.com](http://www.capatue.com) E-mail: info@capatue.com

Tel: +86-25-8637 1192, 8637 1193 Fax: +86-25-8637 1191 ext. 0

Add: Block E4, Zidong Industry Park, 2 Zidong Road, Maqun Town, Qixia Dist., Nanjing, Jiangsu, China, 210023

**Typical Properties**

Index	Value
Appearance	Colorless to yellowish, transparent liquid
Specific Gravity (ρ_{20}), g/cm ³	1.025
Boiling Point (2mHg), °C	114~118
Refractive Index (n_D^{25})	1.4161
Flash Point, °C	137
Solubility	Soluble in alcohol and aromatic and aliphatic hydrocarbons. Ketones are not recommended diluents. React with water.

Applications and Performance

1. Coatings, Adhesives and Sealants: An excellent adhesion promoter to glass, aluminum, steel and other inorganic surface in acrylic, polysulfide, urethane, RTV, epoxy, nitrile and phenolic adhesive, sealants and coatings.
2. Glass Fiber and Mineral Batt: Improve the moisture resistance and mechanic strength.
3. Resin-Base Composites: Greatly enhance the flexural, compressive and interlaminar shear strengths before and after exposure to humidity. Improve wet electrical properties.
4. Resin-Sand Foundry: Strengthens the bond between phenolic or furan binders and silicon sand.
5. Grinding Wheels: Promotes an improved, water resistant bond between the abrasive grit and phenolic resin binders.

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.

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.

Capatue specifically disclaims any other express or implied warranty of fitness for a particular purpose or merchantability.

Capatue disclaims liability for any incidental or consequential damages.

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