

N-(2-aminoethy1) -3-aminopropy1

methyldimethoxysilane

RK-G602

Product description

Structural formula:

 $\begin{array}{c} OCH_3 \\ | \\ NH_2 - CH_2CH_2 - NH - CH_2CH_2CH_2Si - CH_3 \\ | \\ OCH_3 \\ OCH_3 \end{array}$

Molecular formula: C8H22N2O2Si

Molecular weight: 206

CAS No. : 3069-29-2

Chemical name: N-(2-aminoethyl) -3-aminopropyl methyldimethoxysilane

peculiarity

RK-G602 It is an organosilane with an active amine group and a hydrolyzable methoxysilicon-free bifunctional group. This bifocal structure gives RK-G602 special properties: it is able to organically bond inorganic materials (such as glass, metal, fillers) and organic polymers (such as thermoplastics, thermosets or elastomers) together, thus acting as a catalyst for adhesion, crosslinking agents and/or surface modifiers, reactants for product modification. It is a colorless or light yellow transparent liquid with a special ammonia taste, soluble in alcohols, chain hydrocarbons and aromatic hydrocarbons and other solvents.

Physical and chemical data

nature	Numerical value
appearance	Colorless transparent liquid

Tianjin Ruike Chemical Co. LTDTel:+86 18526852692Add:Room 116-11, 160 Xiangyuan Road, Jingjin Science and Technology Valley Industrial Park, Wuqing
District, Tianjinwww.rk-chem.comtjrkhg@126.comwww.rk-chem.com



purity	≥97.0%
Density 20°Cg/ml	0.9650-0.9750
Boiling point 760mmHg	265°C
Closed cup flash point	93°C
Refractive index 25°C	1. 441–1. 451

Note: The above data is for reference only and cannot be used as technical specifications

Reaction property

In the presence of water, RK-G602 will hydrolyze the silicon hydroxyl groups that produce domestic waves and form bonds on the surface of various inorganic materials. The amino groups of RK-G602 with organic properties can react with suitable organic polymers. RK-G602 can self-catalyze hydrolysis reaction. The PH value of the hydrolysate is about 10^{11} . Suitable inorganic materials like: glass, glass fiber, glass wool, mineral wool, silica, sand, mica, aluminum hydroxide, quartz, calcium silicate, kaolin, talc, other silicate fillers, metal oxides and metals. Resins that can be used for RK-G602 include phenolic resin, furan, and silicone rubber.

RK-G602 can react in ketone or ester solvents. The silane itself or the silanized substrate reacts with carbon dioxide to form the corresponding carbonate or carbamate.

Product application

RK-G602 is an important component in many industrial applications, such as:

• As an additive to cooling cured phenolic resin and furan resin, it



improves its bending strength and prolongs its shelf life

- As a raw material for the amino functional siloxane complex
- Casting resin: as an additive to cooling cured phenolic resin and furan resin
- Sealants and adhesives: as primer or additive
- Inorganic filled compounds: Pretreatments of fillers or pigments or as additives to polymers
- Paints and coatings: as a primer or additive to improve adhesion to the substrate

The RK-G602 also brings important features to end products, including:

- Improve mechanical properties such as bending strength, impact strength and modulus of elastomers
- Improve moisture resistance and corrosion resistance
- Improve electrical properties, such as dielectric constant, volume resistivity

Improve processing performance, such as:

• Adhesiveness

Product security, handling and storage

The container should be sealed after opening to prevent water vapor from entering and producing hydrolysis.

Stored in the original unopened container at room temperature, this product has a shelf life of one year from the date of production. After passing the test, the buyer will decide whether to continue to use the expired product.

Note: The Company is only responsible for the sales specifications of the products at the time of shipment, and shall not be liable for any indirect



or incidental damages.

Packing :5L, 10L, 25L, 200L, 1000L