

# PROMOTER KS 297

**CHEMICAL NAME:** N-[3-(Trimethoxysilyl)propyl]ethylenediamine.  
Synonyms: [3-(2-Aminoethyl)aminopropyl]trimethoxysilane.

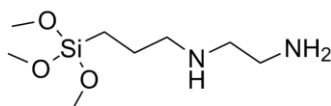
**MOLECULAR FORMULA:** C<sub>8</sub>H<sub>22</sub>N<sub>2</sub>O<sub>3</sub>Si

**CAS:** 1760-24-3

**EINECS:** 217-164-6

**MOLECULAR WEIGHT:** 222.36

**MOLECULAR STRUCTURE:**



**EQUIVALENT BRAND:**

<b>Momentive:</b> Silquest A-1120	<b>Wacker:</b> GENIOSIL GF 91
<b>Dow Corning:</b> Z-6020	<b>Shin-Etsu:</b> KBM-603
<b>Evonik:</b> Dynasylan DAMO	<b>UCT:</b> A0700

**DESCRIPTION:** **Promoter KS 297** is a diamino functional silane that may be used over a broad range of applications. It is used to promote adhesion between inorganic and organic surface, fillers or reinforcements and resins that react with amino groups.

**APPLICATIONS:**

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.

**TYPICAL PHYSICAL PROPERTIES:**

Appearance	Colorless, transparent liquid
Specific Gravity ( $\rho_{20}$ ), g/cm <sup>3</sup>	1.010
Boiling Point (760mmHg), °C	259
Refractive Index (n <sub>D</sub> <sup>25</sup> )	1.4425
Flash Point, °C	138
Solubility	Soluble in water (with reaction), alcohol and aromatic and aliphatic hydrocarbons. Ketones are not recommended diluents.

**PACKING:**

The regular packing of this product is 25kg plastic pail, 200L steel drums and 1000L immediate bulk container.

**STORAGE:**

Should be stored in dry, cool, ventilated room; keep away from water, moisture, high temperature and fire.

**SHELF LIFE:**

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.