Technical Data Sheet

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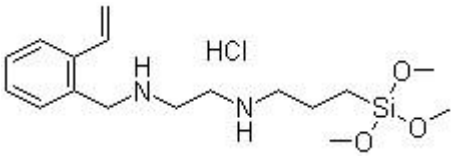
Benzylsilane LS-B6032

Description:

Chemical Name: 3-(N-Styrylmethyl-2-aminoethylamino)-propyltrimethoxysilane hydrochloride;
N-[2-(N-Vinylbenzylamino)ethyl]-3-aminopropyltrimethoxysilane Hydrochloride (30-40% in Methanol);
Synonyms: N-[3-(Trimethoxysilyl)propyl]-N'-(vinylbenzyl)ethylenediamine monohydrochloride;
[(Ethenylphenyl)methyl]-N'-[3-(trimethoxysilyl)propyl]-1,2-ethanediamine monohydrochloride;

This product is a polyfunctional silane that contains a cationic styrene structure and a diamino structure. It exhibits dual reactivity, utilizing both free radicals and amino groups. Compatible with various resin systems, this formulation is a 40% methanol solution. The styrene functional group in this product can undergo polymerization in air at approximately 175°C; therefore, prolonged exposure to this temperature should be avoided.

Molecular Formula: $C_{17}H_{31}ClN_2O_3Si$
Molecular Weight: 374.98
CAS NO.: 34937-00-3
EINECS NO.: 252-297-3



Typical Technical Properties:

Appearance: Greenish-Yellow changing to Reddish-Amber with time
Density (25°C, g/cm3): 0.905±0.005
Refractive Index (25°C): 1.400±0.005
Flash Point (25°C): 12.8
Boiling Point (°C, Kpa): 65
Purity: 30-40% in Methanol
Solubility: Self emulsifying in water, soluble in alcohols

Applications:

1. Used for surface modification of materials such as glass, metals, and ceramics to enhance adhesion, water resistance, and weather resistance.
2. Used as a coupling agent to improve the interfacial bonding between organic polymers and inorganic fillers or reinforcing materials, enhancing the performance of composite materials.
3. Used in electronic packaging materials to enhance mechanical properties and moisture resistance.

Package &Storage:

In 25L Pail, 200L drum.
Keep in cool, dry and ventilated place. Keep away from sunlight and fire sources. Keep in unopened

containers.
Storage beyond the shelf life does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.