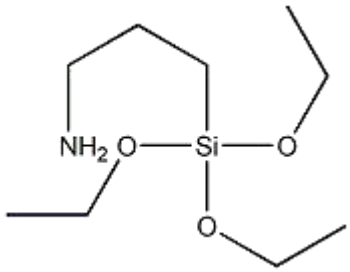
3-Aminopropyltriethoxysilane

Chemical Structure:



Typical Physical Properties

Product No.:	KH-550
Chemical Name:	3-Aminopropyltriethoxysilane
CAS No.:	919-30-2
EINECS No.:	213-048-4
Molecular Formula:	C9H23NO3Si
Molecular Weight:	221.37
Appearance:	Colorless transparent liquid
Density(ρ 20, g/cm3):	0.9510 ± 0.0050
Refractive Index(n25D):	1.4225 ± 0.0050
Purity:	98%

Applications:

KH-550 is applied in plastic products (including cables, glassfiber-reinforcement plastics etc.), rubber products, adhesives, coatings, pigments dispersion, inks, magnetic materials (plastic magnet and rubber magnet), metallic casting resins and resins concrete, etc.

KH-550 maximizes the physical and electrical properties of mineral-filled phenolics, epoxies, polyamides, polybutylene terephthalate, and a host of other thermoset and thermoplastic composites. Filler wetting and dispersibility in the polymer matrix are also improved.

KH-550 improves adhesion between magnetic powder and organic resins and dispersion of magnetic powder inorganic resins. Also these magnetic appliances attain higher magnetic orientation and excellent magnetic properties, higher mechanical strength, good processability, excellent weathering resistance.

In glass-reinforced thermoset plastics, enhances the flexural, compressive, and interlaminar shear strengths before and after exposure to humidity. greatly improves wet electrical properties.

With nitrile, polysulfide, epoxy, urethane, and adhesives and sealants, improves pigment dispersion and maximizes adhesion to glass, aluminum, and steel.

When KH-550 is used, glass-reinforced thermoplastics, polyamides, polyesters, and polycarbonates exhibit increased flexural and tensile strengths before and after wet exposure.
In glass fiber and mineral wool insulation, as a phenolics resin binder additive, imparts moisture resistance and allows recovery after compression.
In shell molding foundry applications, strengthens the bond between the phenolics binder and foundry sand.
In grinding wheels, promotes an improved, water-resistant bond between the abrasive grit and phenolics resin binder.

Safety

Risk Statements:	22-34-43
Safety Statements:	26-36/37/39-45
UN No.:	2735 8/PG 2
RTECS No.:	TX2100000
WGK Germany:	1
Hazard Class:	8
Packing Group:	III
TSCA:	YES
HS Code:	29310095

Packaging

210LIron Drum：200kg/drum
1000L IBC Container: 950kg/container