Technical Data Sheet

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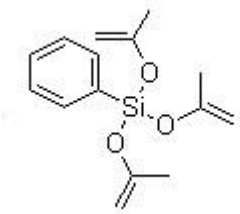
Silane LS-PHIPS

Description:

Chemical Name: Phenyltriisopropenoxysilane
Synonyms: Silane,tris[(1-methylethenyl)oxy]phenyl-;
Molecular Formula: $C_{15}H_{20}O_3Si$ CAS NO.: 52301-18-5
Molecular Weight: 276.40 EINECS NO.: 411-340-8
Chemical Structure:



Phenyltris(isopropenyloxy)silane is an organosilane compound characterized by a phenyl group and three isopropenyloxy groups within its molecular structure. This substance demonstrates outstanding reactivity and is capable of establishing strong chemical bonds with a variety of organic and inorganic substrates. It is frequently employed as a coupling agent, crosslinking agent, or surface treatment in applications such as coatings, adhesives, sealants, and composite materials, where it enhances adhesion, chemical durability, and thermal performance. Its distinctive molecular architecture renders it especially useful in high-performance coatings and advanced composites.

Typical Technical Properties:

Appearance: Colorless transparent liquid Flash Point: 135.2°C
Purity(%): 95 min Boiling Point: 298.5°C
Refractive Index (25°C): 1.4950±0.005 Density(25°C, g/cm^3): 1.06

Applications:

Adhesion promoter in coatings, adhesives, and sealants;
Surface treatment agent in composite materials;
Modifier for high-temperature and chemical-resistant applications;

Package &Storage:

In 25kg pail, 200kg drum, 1000kg IBC.
Keep in cool, dry and ventilated place. Keep away from sunlight and fire sources. Keep away from acid and

alkali. 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.