

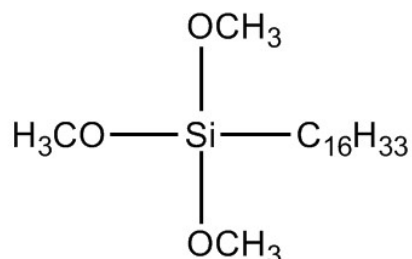
WACKER® Silane 25013 VP

GENIOSIL®

Silanes

Colorless, clear liquid with weak odor. WACKER® Silane 25013 VP has a low volatility and low viscosity and is therefore an easy to handle additive. WACKER® Silane 25013 VP is soluble in common, non-polar organic solvents but insoluble in water. Upon reaction with water WACKER® Silane 25013 VP will release a certain amount of Methanol (VOC).

CAS No. 16415-12-6 | Empirical formula $C_{19}H_{42}O_3Si$ | Molecular weight 346.62 g/mol



Properties

WACKER® Silane 25013 VP is a monomeric alkylalkoxysilane having a saturated, long alkyl chain substituent. When exposed to even traces of moisture the alkoxysilane part of WACKER® Silane 25013 VP is reactive towards the surface of inorganic materials like mineral fillers or even concrete. The WACKER® Silane 25013 VP will react to form a alkyl-functionalized surface surrounding e.g. the mineral filler particles. This functionalized surface will result in an increased compatibility of the fillers with certain, mainly polyolefin-based thermoplastic materials.

Technical data

General Characteristics

Property	Condition	Value	Method
Boiling point	2 hPa	159 °C	-
Density	25 °C	0.89 g/cm ³	DIN 51757
Flash point	-	122 °C	ISO 2719
Ignition temperature	-	245 °C	DIN 51794
Melting point	1013 hPa	2 °C	EG-RLA.1
Purity	-	min. 90 %	GC
Viscosity, dynamic	25 °C	7.7 mPa·s	DIN 51562
hydrolyzable chloride (as HCl)	-	max. 5 ppm	-
refractive index	25 °C	1.43	-

These figures are only intended as a guide and should not be used in preparing specifications.

All the information provided is in accordance with the present state of our knowledge. Nonetheless, we disclaim any warranty or liability whatsoever and reserve the right, at any time, to effect technical alterations. The information provided, as well as the product's fitness for an intended application, should be checked by the buyer in preliminary trials. Contractual terms and conditions always take precedence. This disclaimer of warranty and liability also applies particularly in foreign countries with respect to third parties' rights.

Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from WACKER subsidiaries or may be downloaded via WACKER web site <http://www.wacker.com>.

Protect against frost.

Store in a dry and cool place.

Applications

- Filler Treatment
- Plastic Additives
- Plastic Crosslinking

Application details

Avoid access of moisture during handling and processing.

Process chemical for polyolefin production: The method of use is so dependent upon the manufacturer's own process that no specific suggestions can be made.

Filler Dispersion: WACKER® Silane 25013 VP is used for the surface treatment of mineral fillers (e.g. ATH, MDH) or pigments in thermoplastic compounding applications. The long-chain alkyl substituent improves the dispersion of the mineral fillers in the thermoplastic compounds therefore enabling high filler loadings. Thermoplastic compounds (e.g. polyolefin based) with surface treated fillers by using WACKER® Silane 25013 VP will have enhanced mechanical properties and reduced water uptake. Recommended loading levels of WACKER® Silane 25013 VP in mineral filled thermoplastic compounds are 0.5 to 2.0 wt% WACKER® Silane 25013 VP based on the weight of minerals or pigments.

Packaging and storage

Packaging

- 25 kg can
- 180 kg drum
- 850 kg IBC

Storage

WACKER® Silane 25013 VP should be stored in a dry and ventilated storage compartment; Exposure to water, moisture, high temperature and fire has to be avoided. WACKER® Silane 25013 VP has a shelf life of 36 months from production if stored in tightly closed original container at room temperature.

WACKER® Silane 25013 VP should be protected from temperatures below 5 °C. The product crystallizes when stored at very low temperatures (e.g. at 0 °C) but will become a liquid again after exposure to temperatures above 5 °C.

The 'Best use before end' date of each batch is shown on the product label.

Storage beyond the date specified on the label 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.

Safety notes

Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from WACKER subsidiaries or may be printed via WACKER web site <http://www.wacker.com>.

QR Code WACKER® Silane 25013 VP



For technical, quality or product safety questions, please contact:

Wacker Chemie AG, Hanns-Seidel-Platz 4, 81737 Munich, Germany
productinformation@wacker.com, www.wacker.com

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