

PROSILANE™ SC-2510

3-UREIDOPROPYLTRIMETHOXYSILANE

PRODUCT DESCRIPTION

SC-2510, gamma-Ureidopropyltrimethoxysilane, is a 100% active ureido silane that may be used to promote adhesion between a wide range of resins and substrates, fillers or reinforcements. It is soluble in methanol, ethanol, acetone, toluene and water. ocarbon solvents.

TYPICAL PRODUCT DATA*

Property	Unit	Typical Value
CAS\$	-	23843-64-3
Molecular Weight	g/mol	222.32
Formula		C7H18N2O4Si
Appearance	-	Amber clear liquid
Boiling Point	°C	220
Flash Point	°C	99
Refractive Index	-	1.386
Density	g/cm ³	1.15
Purity	%	≥98.5%

* These values are not intended to be used as specifications but as suggested characteristics

PACKAGING

The size of the available packages can be checked with Sales Department. SC-2510 is typically supplied in 200kg steel drums.

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ SAFETY DATA SHEET AND CONTAINER LABELS FOR SAFE USE, PHYSICAL, ENVIRONMENTAL, AND HEALTH HAZARD INFORMATION.

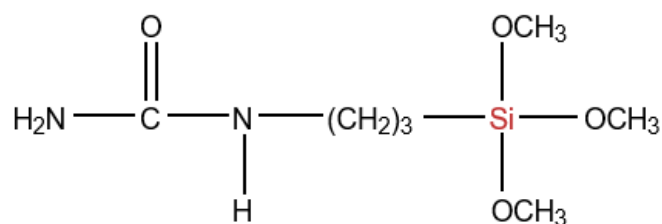
LIMITATIONS: Not intended for human injection. This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

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TECHNICAL DATA SHEET



TYPICAL FEATURES AND APPLICATIONS

3-Ureidopropyltrimethoxysilane is a ureido-functional organosilane. Its structure features a reactive ureido group and hydrolyzable methoxy groups attached to a silicon atom. This bifunctional nature allows it to bond organic polymers to inorganic surfaces, making it a versatile coupling agent and adhesion promoter. It hydrolyzes in moisture to form silanol groups, which can bond to hydroxylated substrates such as glass, ceramics, and metals. It has better stability than aminosilanes in reactive polymer systems, like phenolic, epoxy, urea-melamine or polyurethane.

Ureido-functional silane does not generate color with time and aging. Ureido-functional silane provides nitrogen reactivity without typical aminosilanes strong basic characteristics.

INFORMATION FOR USE

Ureido-functional silane has good adhesive and sealant adhesion to oil metals.

SC-2510 can improve adhesion between the inorganic filler or fiber and the polymer.

SC-2510 can be used for glass fiber sizes and finishes, wool insulation resin binders, numerous primers, foundry sand binders, adhesives, sealants and abrasive grinding wheel binders.

SHELF LIFE AND STORAGE

In the unopened original container SC-2510 has a shelf life of one year in a dry and cool place.