



KOREA BIO-GEN Co., Ltd.

84-19 DAEHEUNGSINDEOK-ROAD, SEONGNAM-MYEON, DONGNAM-GU,
CHEONAN-CITY, CHUNGNAM, 330-893, KOREA

Tel : +82-41-523-6201/2, Fax : +82-41-523-6203, E-mail : kbg@foodchem.co.kr


Technical Data Sheet of GPTMS / Version : 1.0 / 2013.03.31

FINE CHEMICALS DIVISION

SILANE COUPLING AGENTS

KBG

GPTMS

Chemical Name	gamma-Glycidoxypropyltrimethoxysilane	
	(3-Glycidoxypropyl)trimethoxysilane	
	[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane	
CAS / EINECS No.	2530-83-8 / 219-784-2	
Structural formula	$(\text{CH}_3\text{O})_3\text{SiC}_3\text{H}_6\text{O}-\text{CH}_2\overset{\text{O}}{\underset{\text{O}}{\text{C}}}\text{CH}_2$	
Molecular formula	C ₉ H ₂₀ O ₅ Si [236.34]	
Appearance	Colorless and transparent liquid	
Density(g/ml)	1.060 ~ 1.080 (20°C)	
Flash Point	110°C	
Boiling Point	290°C	
Refractive Index	1.426 ~ 1.428 (25°C)	
Viscosity (cSt)	3.0 (25°C)	
Solubility	It is soluble in water after hydrolysis, alcohol, acetone and most aliphatic esters at normal application levels under five percent. Hydrolysis releases methanol.	
Purity	98.0% min by G/C	
Applications	It is a glycidoxy(epoxy) -functional silane that is used as a coupling agent for unsaturated polyester - fiberglass composites, for polysulfide and polyurethane caulks and sealants, for glass roving size-binders. It is also used as adhesion promotor in waterborne systems.	
Property & Storage	Stored in cool and dry air-flowing area preventing sunlight.	
Package	20kg/pail, 200kg/drum or other packing on request.	