



# KOREA BIO-GEN Co., Ltd.

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Technical Data Sheet of MEMO / Version : 1.0 / 2013.03.31

FINE CHEMICALS DIVISION

SILANE COUPLING AGENTS

KBG

## MEMO

<b>Chemical Name</b>	3-Methacryloxypropyltrimethoxysilane	
	gamma-Methacryloxypropyltrimethoxysilane	
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	3-Trimethoxysilylpropylmethacrylate	
<b>CAS / EINECS No.</b>	2530-85-0 / 219-785-8	
<b>Structural formula</b>	$(\text{CH}_3\text{O})_3\text{SiC}_3\text{H}_6\text{O}-\overset{\text{O}}{\parallel}{\text{C}}-\underset{\text{CH}_3}{\text{C}}=\text{CH}_2$	
<b>Molecular formula</b>	C <sub>10</sub> H <sub>20</sub> O <sub>5</sub> Si [248.35]	
<b>Appearance</b>	Colorless transparent liquid	
<b>Density(g/ml)</b>	1.040 ~ 1.055 (20℃)	
<b>Flash Point</b>	92℃	
<b>Boiling Point</b>	255℃	
<b>Refractive Index</b>	1.045 (25℃)	
<b>Viscosity (cSt)</b>	2.5 (25℃)	
<b>Solubility</b>	After hydrolysis, it is soluble in water with adequate stirring if the pH is adjusted to 4.0. Hydrolysis releases methanol. Easy soluble in a variety of organic solvents, easy hydrolysis and condensation to form polysiloxane, easy polymerization under overheat, illumination and the existence of peroxide.	
<b>Purity</b>	98.0% min by G/C	
<b>Applications</b>	Adhesion promoter; coupling agent; used for free-radical crosslinked polyester, rubber, polyolefins, styrenics; used to couple fillers or fiberglass to resin; moisture crosslinking of acrylics.	
<b>Property &amp; Storage</b>	It should be hermetically stored in 0~5℃, because of its reactivity, it will polymerize by moisture or light or heat.	
<b>Package</b>	20kg/pail, 200kg/drum or other packing on request.	