

GC Derivatization – Surface Treatment Reagents

Surface Treatment Reagents

Make glass and plastic surfaces slippery and inert ... or modify them to attach just about anything!

Surface Treatment Reagents Selection Guide

Product #	Description	Function	Properties	Pkg. Size
X 80370	3-Aminopropyltriethoxysilane	Attaches a primary amine functional group to the surface	<ul style="list-style-type: none"> Cross-linking agents such as BS², EDC and Sulfo-SMCC can be used to immobilize proteins, peptides, modified DNA, etc., to the treated surface Coats certain plastic surfaces noncovalently to create a reactive film 	100 g
			<i>R: 22, 34, 36/37/38; S: 16, 26, 28, 30, 41</i>	
X 42799	AquaSil™ Siliconizing Fluid $\text{CH}_3(\text{CH}_2)_{16}\text{CH}_2\text{Si}(\text{OR})_3$	Attaches the silane polymer, octadecyltrialkoxysilane, to make the surface inert or can polymerize to create an inert film	<ul style="list-style-type: none"> Water-dispersable Greater resistance to base hydrolysis than other surface treatments Can be used on plastic surfaces 	120 ml
			<i>R: 11, 35; S: 16, 26</i>	
83410	Dimethyldichlorosilane (DMDCS)	Attaches a small silane molecule to make the surface inert	<ul style="list-style-type: none"> Soluble in organic solvents Coating is more thermally stable than AquaSil™ Siliconizing Fluid or SurfaSil™ Siliconizing Fluid 	100 g
	$\begin{array}{c} \text{Cl} \\ \\ \text{CH}_3 - \text{Si} - \text{CH}_3 \\ \\ \text{Cl} \end{array}$ <p>M.W. 129.06</p>		<i>R: 11, 35, 36/37, 39; S: 23, 26, 28, 44</i>	
X 84770	Hexamethyldisilazane (HMDS)	Attaches a small silane molecule to make the surface inert	<ul style="list-style-type: none"> Soluble in organic solvents Used for deactivating HPLC or GC packings and glass wool 	25 g
X 84769	$\begin{array}{c} \text{CH}_3 \quad \quad \text{CH}_3 \\ \quad \quad \\ \text{CH}_3 - \text{Si} - \text{NH} - \text{Si} - \text{CH}_3 \\ \quad \quad \\ \text{CH}_3 \quad \quad \text{CH}_3 \end{array}$ <p>M.W. 161.4</p>		<i>R: 11, 20/21/22, 36; S: 16, 26, 36</i>	100 g
X 42800	SurfaSil™ Siliconizing Fluid	Attaches a short chain silane polymer to make the surface inert or can polymerize to create an inert film	<ul style="list-style-type: none"> Soluble in organic solvents Ideal for modifying metals, glass, ceramics and fiber optics Can be used for certain plastic surfaces Used to treat GC injection port glass inserts 	120 ml
	$\begin{array}{c} \text{CH}_3 \quad \left[\begin{array}{c} \text{CH}_3 \\ \\ \text{Si} - \text{O} \\ \\ \text{CH}_3 \end{array} \right]_n \quad \text{CH}_3 \\ \quad \quad \quad \quad \quad \quad \\ \text{Cl} - \text{Si} - \text{O} \quad \quad \quad \text{Si} - \text{O} \quad \quad \quad \text{Si} - \text{Cl} \\ \quad \quad \quad \quad \quad \quad \\ \text{CH}_3 \quad \quad \quad \text{CH}_3 \quad \quad \quad \text{CH}_3 \end{array}$		<i>R: 11; S: 16, 26</i>	
X 42801	SurfaSil™ Siliconizing Fluid	See above	See above	480 ml
X 42855	SurfaSil™ Siliconizing Fluid	See above	See above	5 x 10 ml ampules

★ New Product * Additional dry ice and/or freight charges. X Additional hazardous handling charge.