

SiSiB SILANE DONORS

for Polypropylene Catalysts

Various SiSiB alkylalkoxy silane have been used as components in Ziegler-Natta Polymerization Catalyst Systems.

The following list shows all commercially available silane donors of PCC.

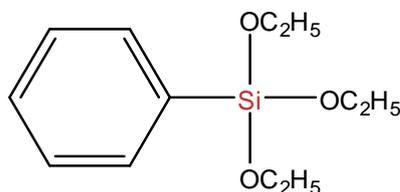
SiSiB® SILANES	Chemical Name	CAS No.
SiSiB® PC8132	Phenyltriethoxysilane (donor-A)	780-69-8
SiSiB® PC8221	Diphenyldimethoxysilane (donor-B)	6843-66-9
SiSiB® PC9500	Cyclohexylmethyldimethoxysilane (donor-C)	17865-32-6
SiSiB® PC9510	Diisobutyldimethoxysilane (donor DIB)	17980-32-4
SiSiB® PC9520	Diisopropyldimethoxysilane (donor-P)	18230-61-0
SiSiB® PC9530	Dicyclopentyl dimethoxysilane (donor-D)	126990-35-0
SiSiB® PC9540	Isobutylisopropyldimethoxysilane	111439-76-0
SiSiB® PC5931	Propyltrimethoxysilane	1067-25-0

Different silane donors with differing organoalkoxy structures are used depending on the exact nature of the catalyst and the type of polypropylene being manufactured. Organic substituents, such as cyclohexyl, cyclopentyl, methyl, isobutyl and phenyl, are some of the organic groups attached to silicon. The alkoxy groups are either methoxy or ethoxy with one, two, or three alkoxy groups on the silane molecule.

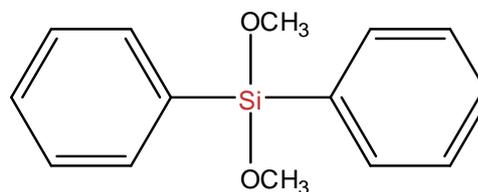
Silane Donors Benefits:

- Increase yield of polymer per unit weight of catalyst.
- Increase isotactic content of polypropylene-based polymers.
- Improve molecular weight dispersity of the polymer.

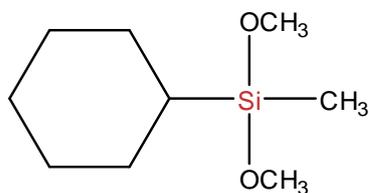
SiSiB® PC8132



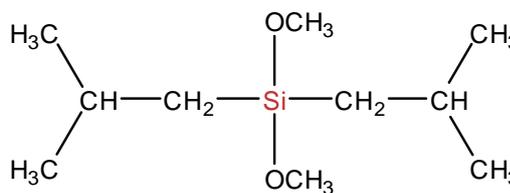
SiSiB® PC8221



SiSiB® PC9500



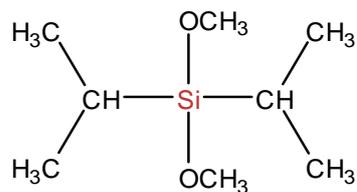
SiSiB® PC9510



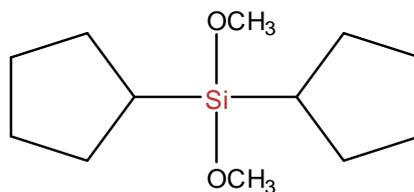
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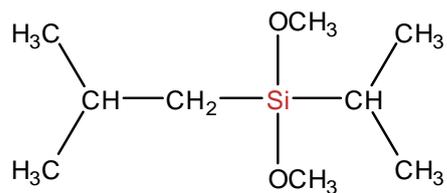
SiSiB® PC9520



SiSiB® PC9530



SiSiB® PC9540



SiSiB® PC5931

