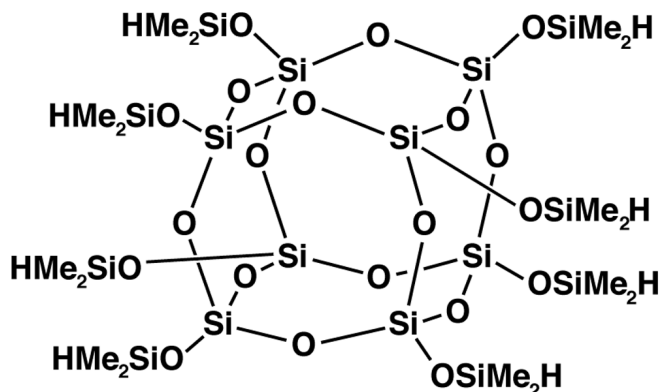


OctaSilane POSS[®]

SH1310

SH1310 is a hybrid molecule with an inorganic silsesquioxane at the core and dimethylsilane groups attached at the corners of the cage. SH1310 can be used as a glassification aid and as a crosslinker. It has also been used for surface modification.



$C_{16}H_{56}O_{20}Si_{16}$

FW 1017.99

D_4^{20} 1.23

n_D^{20} 1.43

Key Properties

Appearance: white powder

Thermal Stability (5% wt loss): 210°C

Solvent Solubility: THF, chloroform, hexane

Solvent Insolubility: water, methanol

Resin Solubility: alkene monomers

Relevant Literature

- Polyhedral Liquid Crystal Silsesquioxanes - *Appl. Organometal. Chem.* 13, 261–272 (1999)
- Hydrosilated Dendritic Networks of POSS Cores and Diacetylene Linkers - *Macromolecules*, 2009, 42 (12), pp 3992–4001
- Photosensitive compositions employing silicon-containing additives - *World Patent 2008/098189*

CAS N/A Authorizations: None

\$620/100g \$4340/kg

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SILANES