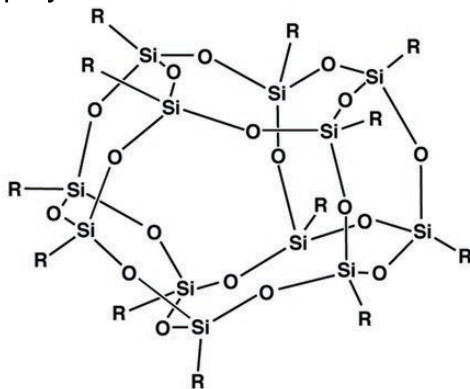


DodecaPhenyl POSS[®]

MS0802

MS0802 is a hybrid molecule with an inorganic silsequioxane at the core and organic phenyl groups attached at the corners of the cage. MS0802 can be used as a prophen in plastics and as a nanoreinforcement in rubber. It has also been used to improve laser marking in fluoropolymers.



R = phenyl

$$C_{72}H_{60}O_{18}Si_{12}$$

FW 1550.26

$$D_4^{20} 1.26$$

$$n_D^{20} 1.56$$
Key Properties**Appearance:** white powder**Thermal Stability (5% wt loss):** 387°C**Solvent Solubility:** slightly soluble in THF, chloroform, toluene**Solvent Insolubility:** acetone, acetonitrile, methanol**Resin Solubility:** thermoplastic resins including fluoropolymers**Relevant Literature**

- Pigments and compositions for use in laser marking - *US Patent 6825265*
- Nanoreinforced rubber compound - *US Patent 6852794*
- Porous plastic film - *US Patent 7452593*

CAS 18923-59-6 Authorizations: TSCA

\$150/100g \$317/kg