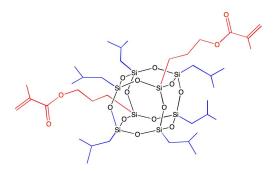
# Methacryl isoButyl POSS®

Hazy, viscous liquid.



#### HC0709.13

## **APPLICATIONS**

Surface energy control, Interfacial compatibilization. Additionally dispersion enhancement and hydrophobicity can be realized in certain formulations.

#### TYPICAL PROPERTIES

Appearance	Hazy viscous liquid
HC0709.13 Viscosity (@25°C)	6.65 Pa s
Refractive Index	1.460 @ 19.1 °C
HC0709.13 Formula Weight	1013.69 for octamer
Solvent Solubility	Cyclohexane, alcohols, ketones
Solvent Insolubility	Water

# **REGULATORY STATUS**

R&D use only at this time. Not a primary dermal irritant.

## HANDLING PRECAUTIONS

Product safety information required for safe use is not included in this document. Before handling, read product and material safety data sheets and container labels for safe use, physical health and hazard information. For material safety data information, contact Hybrid.





# **BENEFITS**

UV free radical and addition cure. The combination of reactivity provides for compatibilization, interfacial control and dispersion. The crosslinking capability in combination with isobutyl provides for hydrophobicity and reduced surface energy.

## **DESCRIPTION**

Methacryl isobutyl POSS® is a hybrid molecule with an inorganic silsesquioxane core and organic reactive groups attached at the corners of the cage. Methacryl isobutyl POSS® is a molecular union of both functional chemistry and inorganic-organic compositions.

## **COMPATIBILITY**

Methacryl isobutyl POSS® is provided in neat form and as a concentrate in solvents/monomers and resins.

Methacryl isobutyl POSS® is intended to be utilized as an additive. At low additive concentrations compatibility is expected with a wide range of resins and monomers bearing similar chemical functionality.

Compatibility testing is recommended for higher concentrations. Additional information and screening may be provided by Hybrid upon request.

## **ADDITIONAL DETAILS**

Methacryl isobutyl POSS® is a provided as a mixture of cages sizes 8, 10, 12. The organic groups are randomly distributed around each cage core. The molar ratio of glycidyl and methacryl groups is 6:2 for HC0713.31

The distribution of cage size, and functionality around the cage core is analogous to that for functional copolymers.

Heteroleptic Cage POSS are represented by the catalog designation HC. The structure shown is idealized and should not be considered exact.

ADDITIONAL MOLAR RATIOS & ORGANIC GROUPS ON CAGE ARE AVAILABLE

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