PERPHENYLOCTASILSESQUIOXANE

Other names: Pentacyclo[9.5.1.13,9.15,15.17,13]octasiloxane, octaphenyl-
Silsesquioxane, phenyl-, cubical octamer
Inchi: InChI=1S/C48H40O12Si8/c1-9-25-41(26-10-1)61-49-62(42-27-11-2-12-28-42)52-65(45-3
InchiKey: KBXJHRABGYYAFC-UHFFFAOYSA-N
Formula: C48H40O12Si8
SMILES: c1ccc([Si]23O[Si]4(c5ccccc5)O[Si]5(c6ccccc6)O[Si](c6ccccc6)(O2)O[Si]2(c6ccccc6)O[Si]
Mol. weight [g/mol]: 1033.52

Physical Properties

Property code	Value	Unit	Source
ie	8.34	eV	Cheméo Relay (1.0)
logp	3.022		Crippen Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C5256791&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):
Cheméo Relay (1.0, beta):

Legend

ie: Ionization energy
logp: Octanol/Water partition coefficient