

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:	KBXJHRABGYAFC-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

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<https://www.chemeo.com/cid/74-610-2/PERPHENYLOCTASILSESQUIOXANE.pdf>

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