

Pervinyloctasilsesquioxane

Other names:	Octa(vinylsilasesquioxane) PSS-OctaVinyl 1,3,5,7,9,11,13,15-Octavinylpentacyclo[9.5.1.13,9.15,15.17,13]octasiloxane
Inchi:	InChI=1S/C16H24O12Si8/c1-9-29-17-30(10-2)20-33(13-5)22-31(11-3,18-29)24-35(15-7)
InchiKey:	ZWCNRMDCQDJIRL-UHFFFAOYSA-N
Formula:	C16H24O12Si8
SMILES:	C=C[Si]12O[Si]3(C=C)O[Si]4(C=C)O[Si](C=C)(O1)O[Si]1(C=C)O[Si](C=C)(O2)O[Si](C=C)
Mol. weight [g/mol]:	633.04
CAS:	69655-76-1

Physical Properties

Property code	Value	Unit	Source
log10ws	11.71		Crippen Method
logp	1.566		Crippen Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cps	760.00	J/molxK	300.00	NIST Webbook

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C69655761&Units=SI

Legend

cps: Solid phase heat capacity
log10ws: Log10 of Water solubility in mol/l
logp: Octanol/Water partition coefficient

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