2,2-Diphenyl-4,4,6,6-tetramethylcyclotrisiloxane

Other names: Diphenyltetramethylcyclotrisiloxane
Inchi: InChI=1S/C16H22O3Si3/c1-20(2)17-21(3,4)19-22(18-20,15-11-7-5-8-12-15)16-13-9-6-10
InchiKey: OGDLFRPDSKIBRZ-UHFFFAOYSA-N
Formula: C16H22O3Si3
SMILES: C[Si]1(C)O[Si](C)(C)O[Si](c2ccccc2)(c2ccccc2)O1
Mol. weight [g/mol]: 346.60
CAS: 1693-51-2

Physical Properties

Property code	Value	Unit	Source
log10ws	-5.74		Crippen Method
logp	2.710		Crippen Method
ss	528.00	J/mol×K	NIST Webbook
tt	337.98 ± 0.01	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cps	463.60	J/mol×K	298.15	NIST Webbook
hfust	22.19	kJ/mol	338.00	NIST Webbook
hvapt	66.90	kJ/mol	481.00	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=C1693512&Units=SI&Mask=3FFF

Legend

cps:	Solid phase heat capacity
hfust:	Enthalpy of fusion at a given temperature
hvapt:	Enthalpy of vaporization at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
ss:	Solid phase molar entropy at standard conditions
tt:	Triple Point Temperature