2,2,4,4,6,6-Hexamethyl-8,8-diphenyl-[1,3,5,7,2,4,6,

Other names: 2,2,4,4,6,6-hexamethyl-8,8-diphenylcyclotetrasiloxane
1,1,3,3,5,5-Hexamethyl-7,7-diphenylcyclotetrasiloxane
Inchi: InChI=1S/C18H28O4Si4/c1-23(2)19-24(3,4)21-26(22-25(5,6)20-23,17-13-9-7-10-14-17)1
InchiKey: BOIFXPDTOHPTOD-UHFFFAOYSA-N
Formula: C18H28O4Si4
SMILES: C[Si]1(C)O[Si](C)(C)O[Si](c2ccccc2)(c2ccccc2)O[Si](C)(C)O1
Mol. weight [g/mol]: 420.75
CAS: 1693-44-3

Physical Properties

Property code	Value	Unit	Source
log10ws	-4.30		Crippen Method
logp	3.428		Crippen Method
rinpol	1883.00		NIST Webbook
ss	758.60	J/mol×K	NIST Webbook
ss	758.60	J/mol×K	NIST Webbook
tt	304.96 ± 0.02	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cps	633.00	J/mol×K	298.15	NIST Webbook
hfust	42.73	kJ/mol	304.96	NIST Webbook
hfust	42.73	kJ/mol	305.09	NIST Webbook
hfust	42.73	kJ/mol	305.00	NIST Webbook
sfust	140.10	J/mol×K	304.96	NIST Webbook
sfust	140.10	J/mol×K	305.09	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=C1693443&Units=SI

Legend

cps:	Solid phase heat capacity
hfust:	Enthalpy of fusion at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
rinpol:	Non-polar retention indices
sfust:	Entropy of fusion at a given temperature
ss:	Solid phase molar entropy at standard conditions
tt:	Triple Point Temperature