1,1,1,3,5,5,5-Heptamethyl-3-phenyltrisiloxane

Inchi: InChI=1S/C13H26O2Si3/c1-16(2,3)14-18(7,15-17(4,5)6)13-11-9-8-10-12-13/h8-12H,1-7H
InchiKey: FNATTZRLLOIKNY-UHFFFAOYSA-N
Formula: C13H26O2Si3
SMILES: C[Si](C)(C)O[Si](C)(O[Si](C)(C)C)c1ccccc1
Mol. weight [g/mol]: 298.60
CAS: 546-44-1

Physical Properties

Property code	Value	Unit	Source
log10ws	-1.26		Crippen Method
logp	3.669		Crippen Method
sl	620.80	J/mol×K	NIST Webbook
tt	226.84 ± 0.02	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpl	519.60	J/mol×K	298.15	NIST Webbook
hfust	18.29	kJ/mol	226.84	NIST Webbook
hfust	18.29	kJ/mol	226.80	NIST Webbook
hvapt	61.50	kJ/mol	424.50	NIST Webbook
sfust	80.70	J/mol×K	226.84	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=C546441&Units=SI

Legend

cpl:	Liquid 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
sfust:	Entropy of fusion at a given temperature
sl:	Liquid phase molar entropy at standard conditions
tt:	Triple Point Temperature