Tetracosamethyl-cyclododecasiloxane

Other names:	2,2,4,4,6,6,8,8,10,10,12,12,14,14,16,16,18,18,20,20,22,22,24,24-Tetracosamethylcyclod
	Cyclododecasiloxane, tetracosamethyl
Inchi:	InChI=1S/C24H72O12Si12/c1-37(2)25-38(3,4)27-40(7,8)29-42(11,12)31-44(15,16)33-46
InchiKey:	SOGKSNZFDBFKCV-UHFFFAOYSA-N
Formula:	C24H72O12Si12
SMILES:	C[Si]1(C)O[Si](C)(C)O[Si](C)(C)O[Si](C)(C)O[Si](C)(C)O[Si](C)(C)O[Si](C)(C)O[Si](C)(C)(
Mol. weight [g/mol]:	889.85
CAS:	18919-94-3

Physical Properties

Property code	Value	Unit	Source
log10ws	17.59		Crippen Method
logp	8.621		Crippen Method
rinpol	2338.00		NIST Webbook
tf	230.00 ± 1.00	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	15.45	kJ/mol	234.20	NIST Webbook
hvapt	76.60	kJ/mol	572.00	NIST Webbook

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C18919943&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

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
rinpol:	Non-polar retention indices
tf:	Normal melting (fusion) point