Cycloundecasiloxane, docosamethyl

Other names: docosamethylcycloundecasiloxane
Inchi: InChI=1S/C22H66O11Si11/c1-34(2)23-35(3,4)25-37(7,8)27-39(11,12)29-41(15,16)31-43
InchiKey: QKFCLXPIIJGSQB-UHFFFAOYSA-N
Formula: C22H66O11Si11
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]: 815.69
CAS: 18766-38-6

Physical Properties

Property code	Value	Unit	Source
log10ws	16.15		Crippen Method
logp	7.902		Crippen Method
rinpol	2185.00		NIST Webbook
tf	220.00 ± 1.00	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	17.73	kJ/mol	216.20	NIST Webbook
hvapt	74.50	kJ/mol	558.00	NIST Webbook

Sources

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C18766386&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