

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:	C ₂₂ H ₆₆ O ₁₁ Si ₁₁
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)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

Latest version available from:

<https://www.cheméo.com/cid/35-946-3/Cycloundecasiloxane-docosamethyl.pdf>

Generated by Cheméo on 2025-12-05 20:13:40.208627246 +0000 UTC m=+4713817.738667916.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.