1,3,5-Trisilacyclohexane, 1,1,3,3,5,5-hexamethyl-

Other names:	1,1,3,3,5,5-Hexamethylcyclotrimethylenetrisilane
	1,1,3,3,5,5-Hexamethyl-1,3,5-trisilacyclohexane
Inchi:	InChI=1S/C9H24Si3/c1-10(2)7-11(3,4)9-12(5,6)8-10/h7-9H2,1-6H3
InchiKey:	ICSWLKDKQBNKAY-UHFFFAOYSA-N
Formula:	C9H24Si3
SMILES:	C[Si]1(C)C[Si](C)(C)C[Si](C)(C)C1
Mol. weight [g/mol]:	216.54
CAS:	1627-99-2

Physical Properties

Property code	Value	Unit	Source
ie	9.39 ± 0.03	eV	NIST Webbook
log10ws	3.85		Crippen Method
logp	3.743		Crippen Method
ss	477.39	J/mol×K	NIST Webbook
tt	269.28 ± 0.02	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cps	400.95	J/mol×K	298.15	NIST Webbook
hfust	16.50	kJ/mol	269.28	NIST Webbook
hfust	16.50	kJ/mol	269.30	NIST Webbook
hvapt	45.52	kJ/mol	476.55	NIST Webbook
sfust	61.42	J/mol×K	269.28	NIST Webbook
svapt	95.52	J/mol×K	476.55	NIST Webbook

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cps:	Solid phase heat capacity
hfust:	Enthalpy of fusion at a given temperature
hvapt:	Enthalpy of vaporization at a given temperature
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
sfust:	Entropy of fusion at a given temperature
ss:	Solid phase molar entropy at standard conditions
svapt:	Entropy of vaporization at a given temperature
tt:	Triple Point Temperature

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