1,3-Disilacyclobutane, 1,1,3,3-tetramethyl-

Other names: 1,1,3,3-Tetramethyl-1,3-disilacyclobutane
Inchi: InChI=1S/C6H16Si2/c1-7(2)5-8(3,4)6-7/h5-6H2,1-4H3
InchiKey: JKDNLUGVHCNUTB-UHFFFAOYSA-N
Formula: C6H16Si2
SMILES: C[Si]1(C)C[Si](C)(C)C1
Mol. weight [g/mol]: 144.36
CAS: 1627-98-1

Physical Properties

Property code	Value	Unit	Source
hvap	36.70 ± 1.10	kJ/mol	NIST Webbook
ie	8.56 ± 0.07	eV	NIST Webbook
log10ws	2.66		Crippen Method
logp	2.495		Crippen Method
sl	296.27	J/mol×K	NIST Webbook
ss	296.27	J/mol×K	NIST Webbook
tt	266.02 ± 0.20	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cps	216.94	J/mol×K	298.15	NIST Webbook
hfust	10.26	kJ/mol	266.00	NIST Webbook
hfust	10.26	kJ/mol	266.00	NIST Webbook
hfust	10.26	kJ/mol	266.02	NIST Webbook
hfust	10.26	kJ/mol	266.02	NIST Webbook
hvapt	39.48	kJ/mol	390.93	NIST Webbook
hvapt	39.50	kJ/mol	391.00	NIST Webbook
sfust	38.58	J/mol×K	266.02	NIST Webbook
sfust	38.56	J/mol×K	266.02	NIST Webbook
svapt	91.34	J/mol×K	390.93	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=C1627981&Units=SI

Legend

cps:	Solid phase heat capacity
hfust:	Enthalpy of fusion at a given temperature
hvap:	Enthalpy of vaporization at standard conditions
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
sl:	Liquid phase molar entropy at standard conditions
ss:	Solid phase molar entropy at standard conditions
svapt:	Entropy of vaporization at a given temperature
tt:	Triple Point Temperature