

1,3-Bis(trimethylsilyl)propane

Inchi:

InChI=1S/C9H24Si2/c1-10(2,3)8-7-9-11(4,5)6/h7-9H2,1-6H3

InchiKey:

YMPSYNWHUIOPJH-UHFFFAOYSA-N

Formula:

C9H24Si2

SMILES:

C[Si](C)(C)CCC[Si](C)(C)C

Mol. weight [g/mol]:

188.46

Physical Properties

Property code	Value	Unit	Source
ie	9.41	eV	NIST Webbook
logp	4.053		Crippen Method
ss	517.14	J/mol×K	NIST Webbook
tb	450.97	K	Cheméo Relay (1.0)
tt	223.73 ± 0.05	K	NIST Webbook
tt	223.73 ± 0.05	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cps	394.34	J/mol×K	298.15	NIST Webbook
hfust	16.05	kJ/mol	223.70	NIST Webbook
hfust	16.06	kJ/mol	223.73	NIST Webbook
hfust	16.05	kJ/mol	223.70	NIST Webbook
hfust	16.06	kJ/mol	223.73	NIST Webbook
hvapt	43.09	kJ/mol	444.52	NIST Webbook
hvapt	43.10 ± 0.50	kJ/mol	390.50	NIST Webbook
hvapt	43.09	kJ/mol	444.52	NIST Webbook
hvapt	43.10 ± 0.50	kJ/mol	390.50	NIST Webbook
sfust	71.76	J/mol×K	223.73	NIST Webbook
sfust	71.76	J/mol×K	223.73	NIST Webbook
svapt	96.99	J/mol×K	444.52	NIST Webbook
svapt	96.99	J/mol×K	444.52	NIST Webbook

Sources

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C2295058&Units=SI>

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
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
tb:	Normal Boiling Point Temperature
tt:	Triple Point Temperature

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