

1,1-DIMETHYL-1-SILACYCLOBUTANE

Other names:	1,1-Dimethylsilacyclobutane Cyclotrimethylenedimethylsilane Silacyclobutane, 1,1-dimethyl-
Inchi:	InChI=1S/C5H12Si/c1-6(2)4-3-5-6/h3-5H2,1-2H3
InchiKey:	YQQFFTNDQFUNHB-UHFFFAOYSA-N
Formula:	C5H12Si
SMILES:	C[Si]1(C)CCC1
Mol. weight [g/mol]:	100.24

Physical Properties

Property code	Value	Unit	Source
hvap	33.00 ± 0.80	kJ/mol	NIST Webbook
ie	8.83 ± 0.07	eV	NIST Webbook
ie	9.00	eV	NIST Webbook
ie	8.97 ± 0.03	eV	NIST Webbook
ie	8.83 ± 0.07	eV	NIST Webbook
ie	9.40	eV	NIST Webbook
ie	9.40	eV	NIST Webbook
logp	2.098		Crippen Method
ss	279.49	J/mol×K	NIST Webbook
tb	338.74	K	Cheméo Relay (1.0)
tt	155.52 ± 0.02	K	NIST Webbook
tt	155.52 ± 0.02	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cps	197.53	J/mol×K	298.15	NIST Webbook
hfust	6.76	kJ/mol	155.50	NIST Webbook
hfust	6.76	kJ/mol	155.52	NIST Webbook
hfust	6.76	kJ/mol	155.50	NIST Webbook
hfust	6.76	kJ/mol	155.50	NIST Webbook
hfust	6.76	kJ/mol	155.52	NIST Webbook
hfust	6.76	kJ/mol	155.50	NIST Webbook

hvapt	32.10	kJ/mol	356.00	NIST Webbook
hvapt	32.14	kJ/mol	355.91	NIST Webbook
hvapt	32.10	kJ/mol	356.00	NIST Webbook
hvapt	32.14	kJ/mol	355.91	NIST Webbook
sfust	43.51	J/mol×K	155.52	NIST Webbook
sfust	42.87	J/mol×K	155.50	NIST Webbook
sfust	43.51	J/mol×K	155.52	NIST Webbook
sfust	42.87	J/mol×K	155.50	NIST Webbook
svapt	90.29	J/mol×K	355.91	NIST Webbook
svapt	90.29	J/mol×K	355.91	NIST Webbook

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2295127&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.cheméo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	

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
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

Latest version available from:

<https://www.cheméo.com/cid/61-076-0/1-1-DIMETHYL-1-SILACYCLOBUTANE.pdf>

Generated by Cheméo on 2026-07-21 20:29:50.62986407 +0000 UTC m=+176886.471749448.

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