

Silane, methylenebis[trimethyl-

Other names:	2,4-Disilapentane, 2,2,4,4-tetramethyl- Bis(trimethylsilyl)methane Methylenebis[trimethylsilane] Silane, methylenebis*trimethyl-
Inchi:	InChI=1S/C7H20Si2/c1-8(2,3)7-9(4,5)6/h7H2,1-6H3
InchiKey:	GYIODRUWWNNGPI-UHFFFAOYSA-N
Formula:	C7H20Si2
SMILES:	C[Si](C)(C)C[Si](C)(C)C
Mol. weight [g/mol]:	160.40
CAS:	2117-28-4

Physical Properties

Property code	Value	Unit	Source
ie	9.50	eV	NIST Webbook
log10ws	2.22		Crippen Method
logp	3.202		Crippen Method
pc	1990.00 ± 20.00	kPa	NIST Webbook
rhoc	248.63 ± 2.49	kg/m3	NIST Webbook
rinpol	788.00		NIST Webbook
rinpol	793.00		NIST Webbook
rinpol	788.00		NIST Webbook
sl	515.89	J/mol×K	NIST Webbook
sl	515.90	J/mol×K	NIST Webbook
tc	573.90 ± 0.30	K	NIST Webbook
tt	140.70 ± 0.02	K	NIST Webbook
vc	0.644 ± 0.006	m3/kmol	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpl	357.52	J/mol×K	298.15	NIST Webbook
cpl	357.50	J/mol×K	298.15	NIST Webbook
hfust	11.11	kJ/mol	140.70	NIST Webbook
hfust	11.11	kJ/mol	140.70	NIST Webbook

hfust	11.11	kJ/mol	140.70	NIST Webbook
hvapt	40.25	kJ/mol	460.58	NIST Webbook
hvapt	40.30 ± 0.30	kJ/mol	365.00	NIST Webbook
sfust	78.99	J/mol×K	140.70	NIST Webbook
sfust	78.99	J/mol×K	140.70	NIST Webbook
svapt	98.99	J/mol×K	460.58	NIST Webbook

Sources

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C2117284&Units=SI>
Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307l>
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cpl: Liquid 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
pc: Critical Pressure
rhoc: Critical density
rinpol: Non-polar retention indices
sfust: Entropy of fusion at a given temperature
sl: Liquid phase molar entropy at standard conditions
svapt: Entropy of vaporization at a given temperature
tc: Critical Temperature
tt: Triple Point Temperature
vc: Critical Volume

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