

# Silane, 1,3-propanediylbis[trimethyl-

**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  
**CAS:** 2295-05-8

## Physical Properties

Property code	Value	Unit	Source
ie	9.41	eV	NIST Webbook
log10ws	1.47		Crippen Method
logp	4.053		Crippen Method
ss	517.14	J/molxK	NIST Webbook
tt	223.73 ± 0.05	K	NIST Webbook

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cps	394.34	J/molxK	298.15	NIST Webbook
hfust	16.06	kJ/mol	223.73	NIST Webbook
hfust	16.05	kJ/mol	223.70	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/molxK	223.73	NIST Webbook
svapt	96.99	J/molxK	444.52	NIST Webbook

## Sources

**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci9903071>  
**Crippen Method:** [https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)  
**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C2295058&Units=SI>

# Legend

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

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