

Silane, ethenyltrimethyl-

Other names:	Silane, trimethylvinyl- (Trimethylsilyl)ethylene Trimethylvinylsilane Vinyltrimethylsilane $\text{CH}_2=\text{CHSi}(\text{CH}_3)_3$ Vinyltrimethysilane
Inchi:	InChI=1S/C5H12Si/c1-5-6(2,3)4/h5H,1H2,2-4H3
InchiKey:	GCSJLQSCSDMKTP-UHFFFAOYSA-N
Formula:	C5H12Si
SMILES:	C=C[Si](C)(C)C
Mol. weight [g/mol]:	100.23
CAS:	754-05-2

Physical Properties

Property code	Value	Unit	Source
affp	833.00	kJ/mol	NIST Webbook
basg	804.10	kJ/mol	NIST Webbook
hvap	33.10 ± 0.60	kJ/mol	NIST Webbook
ie	9.86	eV	NIST Webbook
ie	9.20	eV	NIST Webbook
ie	9.80	eV	NIST Webbook
ie	9.80	eV	NIST Webbook
ie	9.82 ± 0.04	eV	NIST Webbook
log10ws	0.68		Crippen Method
logp	2.050		Crippen Method
rinpol	550.00		NIST Webbook
rinpol	550.00		NIST Webbook
rinpol	537.00		NIST Webbook
rinpol	537.00		NIST Webbook
sl	312.20	J/mol×K	NIST Webbook
sl	313.40	J/mol×K	NIST Webbook
tb	328.00	K	NIST Webbook
tt	141.65 ± 0.02	K	NIST Webbook
tt	141.57 ± 0.02	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpl	198.00	J/mol×K	298.15	NIST Webbook
cpl	198.30	J/mol×K	300.00	NIST Webbook
hfust	7.66	kJ/mol	141.57	NIST Webbook
hfust	7.66	kJ/mol	141.65	NIST Webbook
hfust	7.66	kJ/mol	141.70	NIST Webbook
hfust	7.66	kJ/mol	141.70	NIST Webbook
sfust	54.00	J/mol×K	141.57	NIST Webbook
sfust	54.06	J/mol×K	141.65	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=C754052&Units=SI>

Legend

affp:	Proton affinity
basg:	Gas basicity
cpl:	Liquid phase heat capacity
hfust:	Enthalpy of fusion at a given temperature
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
rinpol:	Non-polar retention indices
sfust:	Entropy of fusion at a given temperature
sl:	Liquid phase molar entropy at standard conditions
tb:	Normal Boiling Point Temperature
tt:	Triple Point Temperature

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