Silane, tetraethenyl-

Other names:	Silane, tetravinyl- Tetravinylsilane (CH2=CH)4Si
Inchi:	InChI=1S/C8H12Si/c1-5-9(6-2,7-3)8-4/h5-8H,1-4H2
InchiKey:	UFHILTCGAOPTOV-UHFFFAOYSA-N
Formula:	C8H12Si
SMILES:	C=C[Si](C=C)(C=C)C=C
Mol. weight [g/mol]:	136.27
CAS:	1112-55-6

Physical Properties

Property code	Value	Unit	Source
hvap	42.70 ± 0.70	kJ/mol	NIST Webbook
ie	9.30	eV	NIST Webbook
ie	9.70	eV	NIST Webbook
log10ws	-0.40		Crippen Method
logp	2.336		Crippen Method
tb	403.50 ± 0.50	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	40.50	kJ/mol	353.00	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=C1112556&Units=SI

Legend

hvap:	Enthalpy of vaporization at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
tb:	Normal Boiling Point Temperature