

# Silane, tetraethenyl-

<b>Other names:</b>	Silane, tetravinyl- Tetravinylsilane (CH <sub>2</sub> =CH) <sub>4</sub> Si
<b>Inchi:</b>	InChI=1S/C8H12Si/c1-5-9(6-2,7-3)8-4/h5-8H,1-4H2
<b>InchiKey:</b>	UFHILTCGAOPTOV-UHFFFAOYSA-N
<b>Formula:</b>	C <sub>8</sub> H <sub>12</sub> Si
<b>SMILES:</b>	C=C[Si](C=C)(C=C)C=C
<b>Mol. weight [g/mol]:</b>	136.27
<b>CAS:</b>	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

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C1112556&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1112556&amp;Units=SI</a>

# Legend

<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>h<sub>vapt</sub>:</b>	Enthalpy of vaporization at a given temperature
<b>ie:</b>	Ionization energy
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</b>	Octanol/Water partition coefficient
<b>tb:</b>	Normal Boiling Point Temperature

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