

# Trichlorovinylsilane

<b>Other names:</b>	Silane, trichloroethenyl- Silane, trichlorovinyl- A 150 Silane, vinyltrichloro- Trichlorovinylsilicon Vinylsilicon trichloride Vinyltrichlorosilane VTCS CH <sub>2</sub> =CHSiCl <sub>3</sub> Silane, vinyl trichloro A-150 Trichlorovinyl silicane Union carbide A-150 (Trichlorosilyl)ethylene A 150 (silane) NSC 93872 UN 1305
<b>Inchi:</b>	InChI=1S/C2H3Cl3Si/c1-2-6(3,4)5/h2H,1H2
<b>InchiKey:</b>	GQUIUQDDJKHLHTB-UHFFFAOYSA-N
<b>Formula:</b>	C <sub>2</sub> H <sub>3</sub> Cl <sub>3</sub> Si
<b>SMILES:</b>	C=C[Si](Cl)(Cl)Cl
<b>Mol. weight [g/mol]:</b>	161.49
<b>CAS:</b>	75-94-5

## Physical Properties

Property code	Value	Unit	Source
ie	10.79 ± 0.02	eV	NIST Webbook
ie	11.00	eV	NIST Webbook
log10ws	-0.27		Crippen Method
logp	2.367		Crippen Method
rinpol	682.60		NIST Webbook
rinpol	685.00		NIST Webbook
tb	366.00	K	NIST Webbook

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	34.20	kJ/mol	323.50	NIST Webbook

## Sources

Crippen Method:	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
NIST Webbook:	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C75945&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C75945&amp;Units=SI</a>
Crippen Method:	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>

## Legend

<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>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature

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