

# Silane, chloro(chloromethyl)dimethyl-

<b>Other names:</b>	(CH <sub>3</sub> ) <sub>2</sub> SiCl(CH <sub>2</sub> Cl) (Chloromethyl)dimethylchlorosilane CC3270 CMDMCS Chloro(chloromethyl)dimethylsilane Chlorodimethyl(chloromethyl)silane Dimethylchloromethylchlorosilane
<b>Inchi:</b>	InChI=1S/C3H8Cl2Si/c1-6(2,5)3-4/h3H2,1-2H3
<b>InchiKey:</b>	ITKVLPYNJQOCPW-UHFFFAOYSA-N
<b>Formula:</b>	C <sub>3</sub> H <sub>8</sub> Cl <sub>2</sub> Si
<b>SMILES:</b>	C[Si](C)(Cl)CCl
<b>Mol. weight [g/mol]:</b>	143.09
<b>CAS:</b>	1719-57-9

## Physical Properties

Property code	Value	Unit	Source
ie	10.10	eV	NIST Webbook
log10ws	0.48		Crippen Method
logp	2.208		Crippen Method
rinpola	755.00		NIST Webbook
tb	388.50 ± 0.50	K	NIST Webbook

## Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.87448e+01
Coeff. B	-6.06731e+03
Coeff. C	4.08500e+01
Temperature range (K), min.	287.87
Temperature range (K), max.	410.81

# Sources

<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=C1719579&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1719579&amp;Units=SI</a>
<b>The Yaws Handbook of Vapor Pressure:</b>	<a href="https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure">https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure</a>
<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>

# Legend

<b>ie:</b>	Ionization energy
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>pvap:</b>	Vapor pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature

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