Silane, dichloro(chloromethyl)methyl-

Other names:	CC3275
	CH3SiCl2(CH2Cl)
	Chloromethyldichloromethylsilane
	Chloromethylmethyldichlorosilane
	dichloro(chloromethyl)methylsilane
Inchi:	InChI=1S/C2H5Cl3Si/c1-6(4,5)2-3/h2H2,1H3
InchiKey:	JAYBZWYBCUJLNQ-UHFFFAOYSA-N
Formula:	C2H5Cl3Si
SMILES:	C[Si](Cl)(Cl)CCl
Mol. weight [g/mol]:	163.51
CAS:	1558-33-4

Physical Properties

Property code	Value	Unit	Source
ie	10.89	eV	NIST Webbook
log10ws	0.16		Crippen Method
logp	2.314		Crippen Method
rinpol	785.80		NIST Webbook
rinpol	785.80		NIST Webbook
tb	394.50 ± 0.50	K	NIST Webbook

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	1.12883e+01
Coeff. B	-2.11122e+03
Coeff. C	-7.81250e+01
Temperature range (K), min.	270.04
Temperature range (K), max.	431.36

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1558334&Units=SI
The Yaws Handbook of Vapor Pressure:	https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

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