Ethyldichlorosilane

Other names:	Dichloroethylsilane
	Monoethyldichlorosilane
	Silane, dichloroethyl-
	UN 1183
Inchi:	InChI=1S/C2H6Cl2Si/c1-2-5(3)4/h5H,2H2,1H3
InchiKey:	RKHXNBJRDQOIOQ-UHFFFAOYSA-N
Formula:	C2H6Cl2Si
SMILES:	CC[SiH](Cl)Cl
Mol. weight [g/mol]:	129.06
CAS:	1789-58-8

Physical Properties

Property code	Value	Unit	Source
log10ws	0.62		Crippen Method
logp	1.704		Crippen Method
rinpol	622.70		NIST Webbook
rinpol	620.00		NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	31.60	kJ/mol	323.00	NIST Webbook
hvapt	31.50	kJ/mol	312.50	NIST Webbook

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	1.55421e+01
Coeff. B	-3.83150e+03

Coeff. C	2.85000e+00
Temperature range (K), min.	248.32
Temperature range (K), max.	371.66

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1789588&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
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

hvapt:	Enthalpy of vaporization at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
pvap:	Vapor pressure
rinpol:	Non-polar retention indices