Silane, dichloromethylphenyl-

Other names:	CM8930
	Dichlor-fenyl-methylsilane
	Dichloromethylphenylsilane
	Methylphenyldichlorosilane
	Phenylmethyldichlorosilane
	UN 2437
Inchi:	InChI=1S/C7H8Cl2Si/c1-10(8,9)7-5-3-2-4-6-7/h2-6H,1H3
InchiKey:	GNEPOXWQWFSSOU-UHFFFAOYSA-N
Formula:	C7H8Cl2Si
SMILES:	C[Si](Cl)(Cl)c1ccccc1
Mol. weight [g/mol]:	191.13
CAS:	149-74-6

Physical Properties

Property code	Value	Unit	Source
ie	9.52	eV	NIST Webbook
log10ws	-4.77		Crippen Method
logp	2.443		Crippen Method
rinpol	1140.60		NIST Webbook
rinpol	1140.60		NIST Webbook
tb	478.00	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	51.20	kJ/mol	394.00	NIST Webbook

Correlations

Information	Value
Property code	pvap

Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	1.46494e+01
Coeff. B	-4.22108e+03
Coeff. C	-5.65490e+01
Temperature range (K), min.	350.46
Temperature range (K), max.	508.59

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C149746&Units=SI

Legend

hvapt:	Enthalpy of vaporization at a given temperature
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