

Silane, trichloro(3-chloropropyl)-

Other names:	(3-Chloropropyl)trichlorosilane CC3291 Chloropropyltrichlorosilane Silane, 3-chloropropyltrichloro- Trichloro(3-chloropropyl)silane «gamma»-Chloropropyl trichloro silane Â«gammaÂ»-Chloropropyl trichloro silane
Inchi:	InChI=1S/C3H6Cl4Si/c4-2-1-3-8(5,6)7/h1-3H2
InchiKey:	OOXSLJBUMMHDKW-UHFFFAOYSA-N
Formula:	C3H6Cl4Si
SMILES:	ClCCC[Si](Cl)(Cl)Cl
Mol. weight [g/mol]:	211.98
CAS:	2550-06-3

Physical Properties

Property code	Value	Unit	Source
log10ws	-0.91		Crippen Method
logp	3.271		Crippen Method
tb	454.60	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	49.70	kJ/mol	378.00	NIST Webbook
hvapt	46.40	kJ/mol	406.00	NIST Webbook

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$

Coeff. A	1.43869e+01
Coeff. B	-3.79070e+03
Coeff. C	-6.66000e+01
Temperature range (K), min.	313.00
Temperature range (K), max.	484.29

Sources

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=C2550063&Units=SI
The Yaws Handbook of Vapor Pressure:	https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure

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
tb:	Normal Boiling Point Temperature

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