

Silane, 1,2-ethanediylbis[trichloro-

Other names:	1,2-Bis(trichlorosilyl)ethane Ethane, 1,2-bis(trichlorosilyl)- Silane, 1,2-ethanediylbis*trichloro- bis(trichlorosilyl)ethane ethylenebis(trichlorosilane)
Inchi:	InChI=1S/C2H4Cl6Si2/c3-9(4,5)1-2-10(6,7)8/h1-2H2
InchiKey:	WDVUXWDZTPZIIU-UHFFFAOYSA-N
Formula:	C2H4Cl6Si2
SMILES:	Cl[Si](Cl)(Cl)CC[Si](Cl)(Cl)Cl
Mol. weight [g/mol]:	296.94
CAS:	2504-64-5

Physical Properties

Property code	Value	Unit	Source
log10ws	-8.85e-03		Crippen Method
logp	4.297		Crippen Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	48.60	kJ/mol	398.00	NIST Webbook

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.60269e+01
Coeff. B	-5.16240e+03
Coeff. C	-2.21500e+01
Temperature range (K), min.	350.14

Sources

The Yaws Handbook of Vapor

Pressure:

Crippen Method:

Crippen Method:

NIST Webbook:

<https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure>

<http://pubs.acs.org/doi/abs/10.1021/ci990307l>

https://www.chemeo.com/doc/models/crippen_log10ws

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C2504645&Units=SI>

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

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<https://www.chemeo.com/cid/13-747-8/Silane-1-2-ethanediylbis-trichloro.pdf>

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