

Silane, dichloro-phenyl-

Other names:	Phenyldichlorosilane dichlorophenylsilane
Inchi:	InChI=1S/C6H6Cl2Si/c7-9(8)6-4-2-1-3-5-6/h1-5,9H
InchiKey:	VIRVTHOOZABTPR-UHFFFAOYSA-N
Formula:	C6H6Cl2Si
SMILES:	Cl[SiH](Cl)c1ccccc1
Mol. weight [g/mol]:	177.10
CAS:	1631-84-1

Physical Properties

Property code	Value	Unit	Source
log10ws	-4.14		Crippen Method
logp	1.592		Crippen Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	338.50 ± 0.50	K	1.30	NIST Webbook

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.67742e+01
Coeff. B	-5.52059e+03
Temperature range (K), min.	334.85
Temperature range (K), max.	481.61

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1631841&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/ci9903071

Legend

log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
pvap:	Vapor pressure
tbrp:	Boiling point at reduced pressure

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