

Silane, difluorodiphenyl-

Other names:	Difluorodiphenylsilane Diphenyldifluorosilane Diphenylsilane difluoride
Inchi:	InChI=1S/C12H10F2Si/c13-15(14,11-7-3-1-4-8-11)12-9-5-2-6-10-12/h1-10H
InchiKey:	BOMPXIHODLVNMC-UHFFFAOYSA-N
Formula:	C12H10F2Si
SMILES:	F[Si](F)(c1ccccc1)c1ccccc1
Mol. weight [g/mol]:	220.29
CAS:	312-40-3

Physical Properties

Property code	Value	Unit	Source
log10ws	-9.35		Crippen Method
logp	2.182		Crippen Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	50.70	kJ/mol	454.00	NIST Webbook

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	430.00	K	6.70	NIST Webbook

Correlations

Information	Value
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Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.89894e+01
Coeff. B	-8.52532e+03
Coeff. C	7.40800e+01
Temperature range (K), min.	381.78
Temperature range (K), max.	549.21

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=C312403&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
tbrp:	Boiling point at reduced pressure

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