

Trisilane

Other names:	Si3H8 Silicopropane Trisilan Trisilicane Trisilicon octahydride Trisilicopropane
Inchi:	InChI=1S/H8Si3/c1-3-2/h3H2,1-2H3
InchiKey:	VEDJZFSRVVQBIL-UHFFFAOYSA-N
Formula:	H8Si3
SMILES:	[SiH3][SiH2][SiH3]
Mol. weight [g/mol]:	92.32
CAS:	7783-26-8

Physical Properties

Property code	Value	Unit	Source
ie	9.20	eV	NIST Webbook
ie	9.87	eV	NIST Webbook
log10ws	9.18		Crippen Method
logp	-3.284		Crippen Method

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.46185e+01
Coeff. B	-3.06052e+03
Coeff. C	-2.00100e+01
Temperature range (K), min.	204.25
Temperature range (K), max.	326.05

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C7783268&Units=SI
The Yaws Handbook of Vapor Pressure:	https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure

Legend

ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
pvap:	Vapor pressure

Latest version available from:

<https://www.chemeo.com/cid/32-612-6/Trisilane.pdf>

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