Trigermane

Other names:	Ge3H8
Inchi:	InChI=1S/Ge3H8/c1-3-2/h3H2,1-2H3
InchiKey:	KHKRWLZKHOQQCV-UHFFFAOYSA-N
Formula:	Ge3H8
SMILES:	[GeH3][GeH2][GeH3]
Mol. weight [g/mol]:	225.98
CAS:	14691-44-2

Physical Properties

Property code	Value	Unit	Source
ie	9.60 ± 0.30	eV	NIST Webbook
log10ws	9.18		Crippen Method
logp	-3.284		Crippen Method

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	1.45613e+01
Coeff. B	-3.65708e+03
Coeff. C	-1.58400e+01
Temperature range (K), min.	236.25
Temperature range (K), max.	383.65

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=C14691442&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

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https://www.chemeo.com/cid/34-313-6/Trigermane.pdf

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