

Tetramethoxygermanium

Other names:	Tetramethoxygermane
Inchi:	InChI=1S/C4H12GeO4/c1-6-5(7-2,8-3)9-4/h1-4H3
InchiKey:	ACOVYJCRYLWRLR-UHFFFAOYSA-N
Formula:	C4H12GeO4
SMILES:	CO[Ge](OC)(OC)OC
Mol. weight [g/mol]:	196.78
CAS:	992-91-6

Physical Properties

Property code	Value	Unit	Source
chl	-2984.00 ± 1.70	kJ/mol	NIST Webbook
hf	-803.80 ± 2.70	kJ/mol	NIST Webbook
hfl	-844.00 ± 2.70	kJ/mol	NIST Webbook
hvap	48.70	kJ/mol	NIST Webbook
hvap	40.20 ± 0.40	kJ/mol	NIST Webbook
log10ws	2.36		Crippen Method
logp	0.008		Crippen Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	44.00	kJ/mol	344.00	NIST Webbook

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=C992916&Units=SI

Legend

chl:	Standard liquid enthalpy of combustion
hf:	Enthalpy of formation at standard conditions
hfl:	Liquid phase enthalpy of formation at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient

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