

1-(2-Hydroxyethylthio)-2-(2-vinylthioethoxy)ethan

Other names:	(2-Hydroxyethylthio)ethyl (vinylthio)ethyl ether
Inchi:	InChI=1S/C8H16O2S2/c1-2-11-7-4-10-5-8-12-6-3-9/h2,9H,1,3-8H2
InchiKey:	HAZBQYVULKRZKH-UHFFFAOYSA-N
Formula:	C8H16O2S2
SMILES:	C=CSCCOCCSCCO
Mol. weight [g/mol]:	208.34
CAS:	114811-41-5

Physical Properties

Property code	Value	Unit	Source
gf	-71.26	kJ/mol	Joback Method
hf	-283.73	kJ/mol	Joback Method
hfus	28.73	kJ/mol	Joback Method
hvap	65.45	kJ/mol	Joback Method
log10ws	-1.64		Crippen Method
logp	1.605		Crippen Method
mcvol	163.720	ml/mol	McGowan Method
pc	2969.80	kPa	Joback Method
rinpol	1660.00		NIST Webbook
rinpol	1716.60		NIST Webbook
rinpol	1660.00		NIST Webbook
rinpol	1716.60		NIST Webbook
tb	631.28	K	Joback Method
tc	826.48	K	Joback Method
tf	330.01	K	Joback Method
vc	0.610	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	398.03	J/molxK	631.28	Joback Method
cpg	409.45	J/molxK	663.81	Joback Method
cpg	420.30	J/molxK	696.35	Joback Method
cpg	430.57	J/molxK	728.88	Joback Method

cpg	440.26	J/mol×K	761.42	Joback Method
cpg	449.39	J/mol×K	793.95	Joback Method
cpg	457.94	J/mol×K	826.48	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C114811415&Units=SI

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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