bis-(Vinylthio)ethyl ether

Other names: bis-[2-(Vinylthio)ethyl] ether
Inchi: InChI=1S/C8H14OS2/c1-3-10-7-5-9-6-8-11-4-2/h3-4H,1-2,5-8H2
InchiKey: ISTGSYFIXIWVMW-UHFFFAOYSA-N
Formula: C8H14OS2
SMILES: C=CSCCOCCSC=C
Mol. weight [g/mol]: 190.33

Physical Properties

Property code	Value	Unit	Source
gf	153.40	kJ/mol	Joback Method
hf	-6.07	kJ/mol	Joback Method
hfus	23.36	kJ/mol	Joback Method
hvap	48.11	kJ/mol	Joback Method
log10ws	-2.72		Crippen Method
logp	2.756		Crippen Method
mcvol	153.550	ml/mol	McGowan Method
pc	2814.34	kPa	Joback Method
rinpol	1466.40		NIST Webbook
rinpol	1426.00		NIST Webbook
rinpol	1466.40		NIST Webbook
rinpol	1426.00		NIST Webbook
tb	535.78	K	Joback Method
tc	748.56	K	Joback Method
tf	267.43	K	Joback Method
vc	0.572	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	327.31	J/mol×K	535.78	Joback Method
cpg	340.19	J/mol×K	571.24	Joback Method
cpg	352.44	J/mol×K	606.71	Joback Method
cpg	364.07	J/mol×K	642.17	Joback Method
cpg	375.06	J/mol×K	677.63	Joback Method

cpg	385.44	J/mol×K	713.10	Joback Method
cpg	395.19	J/mol×K	748.56	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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=R41570&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
mcvol:	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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