bis-(2-Ethoxyethyl) sulfide

Inchi: InChI=1S/C8H18O2S/c1-3-9-5-7-11-8-6-10-4-2/h3-8H2,1-2H3
InchiKey: RWZKNFZVXNAVSZ-UHFFFAOYSA-N
Formula: C8H18O2S
SMILES: CCOCCSCCOCC
Mol. weight [g/mol]: 178.29

Physical Properties

Property code	Value	Unit	Source
gf	-160.40	kJ/mol	Joback Method
hf	-431.02	kJ/mol	Joback Method
hfus	22.98	kJ/mol	Joback Method
hvap	45.04	kJ/mol	Joback Method
log10ws	-1.23		Crippen Method
logp	1.793		Crippen Method
mcvol	151.670	ml/mol	McGowan Method
pc	2492.52	kPa	Joback Method
rinpol	1062.00		NIST Webbook
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tb	496.06	K	Joback Method
tc	679.96	K	Joback Method
tf	258.78	K	Joback Method
vc	0.574	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	336.43	J/mol×K	496.06	Joback Method
cpg	349.84	J/mol×K	526.71	Joback Method
cpg	362.81	J/mol×K	557.36	Joback Method
cpg	375.34	J/mol×K	588.01	Joback Method
cpg	387.40	J/mol×K	618.66	Joback Method
cpg	399.00	J/mol×K	649.31	Joback Method
cpg	410.13	J/mol×K	679.96	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=R502339&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