2-Diethylaminoethyl vinyl trisulfide

Inchi: InChI=1S/C8H17NS3/c1-4-9(5-2)7-8-11-12-10-6-3/h6H,3-5,7-8H2,1-2H3
InchiKey: AAPQWDNLEVLBGA-UHFFFAOYSA-N
Formula: C8H17NS3
SMILES: C=CSSSCCN(CC)CC
Mol. weight [g/mol]: 223.42

Physical Properties

Property code	Value	Unit	Source
gf	314.46	kJ/mol	Joback Method
hf	110.12	kJ/mol	Joback Method
hfus	30.61	kJ/mol	Joback Method
hvap	55.23	kJ/mol	Joback Method
log10ws	-3.72		Crippen Method
logp	3.501		Crippen Method
mcvol	178.310	ml/mol	McGowan Method
pc	2784.72	kPa	Joback Method
rinpol	1570.00		NIST Webbook
rinpol	1576.00		NIST Webbook
rinpol	1570.00		NIST Webbook
rinpol	1576.00		NIST Webbook
rinpol	1576.00		NIST Webbook
tb	597.90	K	Joback Method
tc	823.94	K	Joback Method
tf	313.83	K	Joback Method
vc	0.644	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	409.07	J/mol×K	597.90	Joback Method
cpg	423.72	J/mol×K	635.57	Joback Method
cpg	437.47	J/mol×K	673.25	Joback Method
cpg	450.33	J/mol×K	710.92	Joback Method
cpg	462.32	J/mol×K	748.59	Joback Method

cpg	473.45	J/mol×K	786.26	Joback Method
cpg	483.75	J/mol×K	823.94	Joback Method

Sources

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=R334760&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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