bis-[3,3-(2-Methylpropene-1)] disulfide

Inchi: InChI=1S/C8H14S2/c1-7(2)5-9-10-6-8(3)4/h1,3,5-6H2,2,4H3
InchiKey: DVCDYQOQKVVSSH-UHFFFAOYSA-N
Formula: C8H14S2
SMILES: C=C(C)CSSCC(=C)C
Mol. weight [g/mol]: 174.33

Physical Properties

Property code	Value	Unit	Source
gf	241.30	kJ/mol	Joback Method
hf	106.57	kJ/mol	Joback Method
hfus	19.56	kJ/mol	Joback Method
hvap	45.86	kJ/mol	Joback Method
log10ws	-3.64		Crippen Method
logp	3.520		Crippen Method
mcvol	147.680	ml/mol	McGowan Method
pc	2896.73	kPa	Joback Method
rinpol	1242.00		NIST Webbook
rinpol	1242.00		NIST Webbook
tb	513.12	K	Joback Method
tc	736.60	K	Joback Method
tf	217.28	K	Joback Method
vc	0.555	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	303.67	J/mol×K	513.12	Joback Method
cpg	317.22	J/mol×K	550.37	Joback Method
cpg	330.02	J/mol×K	587.61	Joback Method
cpg	342.09	J/mol×K	624.86	Joback Method
cpg	353.46	J/mol×K	662.11	Joback Method
cpg	364.13	J/mol×K	699.35	Joback Method
cpg	374.14	J/mol×K	736.60	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=R63142&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