bis(3-methylbut-3-enyl) disulfide

Inchi: InChI=1S/C10H18S2/c1-9(2)5-7-11-12-8-6-10(3)4/h1,3,5-8H2,2,4H3
InchiKey: PJAJDNBIZBZBGO-UHFFFAOYSA-N
Formula: C10H18S2
SMILES: C=C(C)CCSSCCC(=C)C
Mol. weight [g/mol]: 202.38

Physical Properties

Property code	Value	Unit	Source
gf	258.14	kJ/mol	Joback Method
hf	65.29	kJ/mol	Joback Method
hfus	24.74	kJ/mol	Joback Method
hvap	50.31	kJ/mol	Joback Method
log10ws	-4.47		Crippen Method
logp	4.300		Crippen Method
mcvol	175.860	ml/mol	McGowan Method
pc	2379.54	kPa	Joback Method
rinpol	1437.00		NIST Webbook
rinpol	1437.00		NIST Webbook
rinpol	1441.00		NIST Webbook
tb	558.88	K	Joback Method
tc	774.73	K	Joback Method
tf	239.82	K	Joback Method
vc	0.667	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	394.75	J/mol×K	558.88	Joback Method
cpg	410.14	J/mol×K	594.85	Joback Method
cpg	424.68	J/mol×K	630.83	Joback Method
cpg	438.39	J/mol×K	666.80	Joback Method
cpg	451.31	J/mol×K	702.78	Joback Method
cpg	463.46	J/mol×K	738.75	Joback Method
cpg	474.86	J/mol×K	774.73	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=R493002&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