3,6-Di-isopropyl-[1,2,4,5]tetrathiane

Inchi: InChI=1S/C8H16S4/c1-5(2)7-9-11-8(6(3)4)12-10-7/h5-8H,1-4H3
InchiKey: ROBADDCVLNSGOK-UHFFFAOYSA-N
Formula: C8H16S4
SMILES: CC(C)C1SSC(C(C)C)SS1
Mol. weight [g/mol]: 240.47

Physical Properties

Property code	Value	Unit	Source
gf	187.78	kJ/mol	Joback Method
hf	-3.99	kJ/mol	Joback Method
hfus	16.96	kJ/mol	Joback Method
hvap	55.99	kJ/mol	Joback Method
log10ws	-5.31		Crippen Method
logp	4.727		Crippen Method
mcvol	178.120	ml/mol	McGowan Method
pc	3012.33	kPa	Joback Method
ripol	2130.00		NIST Webbook
ripol	2130.00		NIST Webbook
tb	587.76	K	Joback Method
tc	856.46	K	Joback Method
tf	486.86	K	Joback Method
vc	0.588	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	407.06	J/mol×K	587.76	Joback Method
cpg	425.32	J/mol×K	632.54	Joback Method
cpg	442.27	J/mol×K	677.33	Joback Method
cpg	457.94	J/mol×K	722.11	Joback Method
cpg	472.41	J/mol×K	766.89	Joback Method
cpg	485.71	J/mol×K	811.67	Joback Method
cpg	497.91	J/mol×K	856.46	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=R495211&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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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