methyl pentyl tetrasulfide

Inchi: InChI=1S/C6H14S4/c1-3-4-5-6-8-10-9-7-2/h3-6H2,1-2H3
InchiKey: VWDDVBVZQOYCHO-UHFFFAOYSA-N
Formula: C6H14S4
SMILES: CCCCCSSSSC
Mol. weight [g/mol]: 214.44

Physical Properties

Property code	Value	Unit	Source
gf	132.12	kJ/mol	Joback Method
hf	0.31	kJ/mol	Joback Method
hfus	27.82	kJ/mol	Joback Method
hvap	56.22	kJ/mol	Joback Method
log10ws	-4.84		Crippen Method
logp	4.484		Crippen Method
mcvol	160.800	ml/mol	McGowan Method
pc	3356.75	kPa	Joback Method
rinpol	1508.00		NIST Webbook
rinpol	1508.00		NIST Webbook
tb	611.80	K	Joback Method
tc	865.13	K	Joback Method
tf	294.98	K	Joback Method
vc	0.588	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	348.61	J/mol×K	611.80	Joback Method
cpg	361.76	J/mol×K	654.02	Joback Method
cpg	374.06	J/mol×K	696.24	Joback Method
cpg	385.48	J/mol×K	738.46	Joback Method
cpg	396.00	J/mol×K	780.68	Joback Method
cpg	405.59	J/mol×K	822.91	Joback Method
cpg	414.23	J/mol×K	865.13	Joback Method

Sources

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=R237931&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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