Methyl ethyl pentasulfide

Inchi: InChI=1S/C3H8S5/c1-3-5-7-8-6-4-2/h3H2,1-2H3
InchiKey: KDSXWWLXNIRIHN-UHFFFAOYSA-N
Formula: C3H8S5
SMILES: CCSSSSSC
Mol. weight [g/mol]: 204.42

Physical Properties

Property code	Value	Unit	Source
gf	139.98	kJ/mol	Joback Method
hf	104.10	kJ/mol	Joback Method
hfus	24.18	kJ/mol	Joback Method
hvap	56.36	kJ/mol	Joback Method
log10ws	-4.46		Crippen Method
logp	3.962		Crippen Method
mcvol	134.880	ml/mol	McGowan Method
pc	4952.36	kPa	Joback Method
rinpol	1498.00		NIST Webbook
rinpol	1498.00		NIST Webbook
rinpol	1504.00		NIST Webbook
tb	611.94	K	Joback Method
tc	905.90	K	Joback Method
tf	295.57	K	Joback Method
vc	0.473	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	254.81	J/mol×K	611.94	Joback Method
cpg	264.67	J/mol×K	660.93	Joback Method
cpg	273.74	J/mol×K	709.93	Joback Method
cpg	281.95	J/mol×K	758.92	Joback Method
cpg	289.21	J/mol×K	807.91	Joback Method
cpg	295.45	J/mol×K	856.91	Joback Method
cpg	300.58	J/mol×K	905.90	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=R53422&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