Dipropyl pentasulfide

Inchi: InChI=1S/C6H14S5/c1-3-5-7-9-11-10-8-6-4-2/h3-6H2,1-2H3
InchiKey: OCXRMGKGQQCPFD-UHFFFAOYSA-N
Formula: C6H14S5
SMILES: CCCSSSSSCCC
Mol. weight [g/mol]: 246.50

Physical Properties

Property code	Value	Unit	Source
gf	165.24	kJ/mol	Joback Method
hf	42.18	kJ/mol	Joback Method
hfus	31.95	kJ/mol	Joback Method
hvap	63.03	kJ/mol	Joback Method
log10ws	-5.71		Crippen Method
logp	5.132		Crippen Method
mcvol	177.150	ml/mol	McGowan Method
pc	3423.86	kPa	Joback Method
rinpol	1762.00		NIST Webbook
rinpol	1762.00		NIST Webbook
tb	680.58	K	Joback Method
tc	951.97	K	Joback Method
tf	329.38	K	Joback Method
vc	0.641	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	395.30	J/mol×K	680.58	Joback Method
cpg	408.30	J/mol×K	725.81	Joback Method
cpg	420.20	J/mol×K	771.04	Joback Method
cpg	430.94	J/mol×K	816.27	Joback Method
cpg	440.48	J/mol×K	861.51	Joback Method
cpg	448.79	J/mol×K	906.74	Joback Method
cpg	455.82	J/mol×K	951.97	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R506584&Units=SI
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

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