bis-(Dimethylaminomethyl) sulfide

Inchi: InChI=1S/C4H12N2S/c1-5(2)7-6(3)4/h1-4H3
InchiKey: KOCBDXPTBPQDIB-UHFFFAOYSA-N
Formula: C4H12N2S
SMILES: CN(C)SN(C)C
Mol. weight [g/mol]: 120.22

Physical Properties

Property code	Value	Unit	Source
gf	237.48	kJ/mol	Joback Method
hf	51.04	kJ/mol	Joback Method
hfus	16.29	kJ/mol	Joback Method
hvap	35.40	kJ/mol	Joback Method
log10ws	-0.50		Crippen Method
logp	0.673		Crippen Method
mcvol	103.530	ml/mol	McGowan Method
pc	3960.52	kPa	Joback Method
rinpol	794.00		NIST Webbook
tb	384.58	K	Joback Method
tc	572.20	K	Joback Method
tf	234.18	K	Joback Method
vc	0.349	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	186.97	J/mol×K	384.58	Joback Method
cpg	198.33	J/mol×K	415.85	Joback Method
cpg	209.14	J/mol×K	447.12	Joback Method
cpg	219.44	J/mol×K	478.39	Joback Method
cpg	229.23	J/mol×K	509.66	Joback Method
cpg	238.52	J/mol×K	540.93	Joback Method
cpg	247.35	J/mol×K	572.20	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=R511378&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