(CH3)2NSSN(CH3)2

Other names: Bis(dimethylamino)disulfide
Dimethylamino disulfide
Inchi: InChI=1S/C4H12N2S2/c1-5(2)7-8-6(3)4/h1-4H3
InchiKey: MUPAEPGUCZXFAU-UHFFFAOYSA-N
Formula: C4H12N2S2
SMILES: CN(C)SSN(C)C
Mol. weight [g/mol]: 152.28
CAS: 928-05-2

Physical Properties

Property code	Value	Unit	Source
gf	270.60	kJ/mol	Joback Method
hf	92.91	kJ/mol	Joback Method
hfus	20.42	kJ/mol	Joback Method
hvap	42.22	kJ/mol	Joback Method
ie	8.02	eV	NIST Webbook
ie	7.20	eV	NIST Webbook
log10ws	-1.38		Crippen Method
logp	1.321		Crippen Method
mcvol	119.880	ml/mol	McGowan Method
pc	4046.64	kPa	Joback Method
rinpol	904.00		NIST Webbook
tb	453.36	K	Joback Method
tc	665.71	K	Joback Method
tf	268.58	K	Joback Method
vc	0.404	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	233.99	J/mol×K	453.36	Joback Method
cpg	245.97	J/mol×K	488.75	Joback Method
cpg	257.32	J/mol×K	524.14	Joback Method
cpg	268.04	J/mol×K	559.54	Joback Method

cpg	278.15	J/mol×K	594.93	Joback Method
cpg	287.66	J/mol×K	630.32	Joback Method
cpg	296.58	J/mol×K	665.71	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C928052&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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
ie:	Ionization energy
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