Sulfur diimide, dimethyl-

Other names: Dimethylsulfur diimide
Inchi: InChI=1S/C2H6N2S/c1-3-5-4-2/h1-2H3
InchiKey: SFAHQZYAZNUPFB-UHFFFAOYSA-N
Formula: C2H6N2S
SMILES: CN=S=NC
Mol. weight [g/mol]: 90.15
CAS: 13849-02-0

Physical Properties

Property code	Value	Unit	Source
hf	4.48	kJ/mol	Joback Method
hvap	33.53	kJ/mol	Joback Method
log10ws	0.65		Crippen Method
logp	0.696		Crippen Method
mcvol	71.050	ml/mol	McGowan Method
pc	3650.93	kPa	Joback Method
tb	463.14	K	Joback Method
tc	697.91	K	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	37.20	kJ/mol	273.00	NIST Webbook

Sources

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
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C13849020&Units=SI

Legend

hf:	Enthalpy of formation at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature