Rhodanine, 5,5'-ethylidenedi-

Inchi: InChI=1S/C8H8N2O2S4/c1-2(3-5(11)9-7(13)15-3)4-6(12)10-8(14)16-4/h2-4H,1H3,(H,9,1
InchiKey: CAXCSMMWQXAWSL-UHFFFAOYSA-N
Formula: C8H8N2O2S4
SMILES: CC(C1SC(=S)NC1=O)C1SC(=S)NC1=O
Mol. weight [g/mol]: 292.42

Physical Properties

Property code	Value	Unit	Source
gf	278.80	kJ/mol	Joback Method
hf	28.17	kJ/mol	Joback Method
hfus	38.40	kJ/mol	Joback Method
hvap	82.12	kJ/mol	Joback Method
log10ws	-3.33		Crippen Method
logp	0.655		Crippen Method
mcvol	181.760	ml/mol	McGowan Method
pc	5235.81	kPa	Joback Method
tb	886.24	K	Joback Method
tc	1208.21	K	Joback Method
tf	827.46	K	Joback Method
vc	0.616	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	474.12	J/mol×K	886.24	Joback Method
cpg	485.36	J/mol×K	939.90	Joback Method
cpg	495.03	J/mol×K	993.56	Joback Method
cpg	503.15	J/mol×K	1047.22	Joback Method
cpg	509.70	J/mol×K	1100.89	Joback Method
cpg	514.70	J/mol×K	1154.55	Joback Method
cpg	518.16	J/mol×K	1208.21	Joback Method

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=B6000725&Units=SI

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume