

N,n'-bis(mercaptoacetyl) hydrazine

Inchi:	InChI=1S/C4H8N2O2S2/c7-3(1-9)5-6-4(8)2-10/h9-10H,1-2H2,(H,5,7)(H,6,8)
InchiKey:	SJMLATCMQNTURW-UHFFFAOYSA-N
Formula:	C4H8N2O2S2
SMILES:	O=C(CS)NNC(=O)CS
Mol. weight [g/mol]:	180.25
CAS:	62-48-6

Physical Properties

Property code	Value	Unit	Source
gf	-37.48	kJ/mol	Joback Method
hf	-167.15	kJ/mol	Joback Method
hfus	27.60	kJ/mol	Joback Method
hvap	64.34	kJ/mol	Joback Method
log10ws	-0.56		Crippen Method
logp	-1.007		Crippen Method
mcvol	123.020	ml/mol	McGowan Method
pc	5721.86	kPa	Joback Method
tb	624.72	K	Joback Method
tc	862.05	K	Joback Method
tf	412.94	K	Joback Method
vc	0.450	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	271.29	J/molxK	624.72	Joback Method
cpg	279.72	J/molxK	664.27	Joback Method
cpg	287.53	J/molxK	703.83	Joback Method
cpg	294.75	J/molxK	743.38	Joback Method
cpg	301.38	J/molxK	782.94	Joback Method
cpg	307.45	J/molxK	822.49	Joback Method
cpg	312.97	J/molxK	862.05	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C62486&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
hvac:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mccol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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