Dithiodiglycolicdihydroxamic acid

Inchi: InChI=1S/C4H8N2O4S2/c7-3(5-9)1-11-12-2-4(8)6-10/h9-10H,1-2H2,(H,5,7)(H,6,8)
InchiKey: GBXYKTLFFLSFPT-UHFFFAOYSA-N
Formula: C4H8N2O4S2
SMILES: O=C(CSSCC(=O)NO)NO
Mol. weight [g/mol]: 212.25
CAS: 764-29-4

Physical Properties

Property code	Value	Unit	Source
gf	-303.66	kJ/mol	Joback Method
hf	-464.83	kJ/mol	Joback Method
hfus	35.95	kJ/mol	Joback Method
hvap	97.85	kJ/mol	Joback Method
log10ws	0.51		Crippen Method
logp	-0.621		Crippen Method
mcvol	134.760	ml/mol	McGowan Method
pc	6588.38	kPa	Joback Method
tb	820.92	K	Joback Method
tc	1028.92	K	Joback Method
tf	530.46	K	Joback Method
vc	0.487	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	346.51	J/mol×K	820.92	Joback Method
cpg	351.80	J/mol×K	855.59	Joback Method
cpg	356.55	J/mol×K	890.25	Joback Method
cpg	360.76	J/mol×K	924.92	Joback Method
cpg	364.43	J/mol×K	959.59	Joback Method
cpg	367.56	J/mol×K	994.25	Joback Method
cpg	370.16	J/mol×K	1028.92	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=C764294&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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