

Dithiodiglycolic acid dihydrazide

Inchi:	InChI=1S/C4H10N4O2S2/c5-7-3(9)1-11-12-2-4(10)8-6/h1-2,5-6H2,(H,7,9)(H,8,10)
InchiKey:	NJNJIZMEMBXNJM-UHFFFAOYSA-N
Formula:	C4H10N4O2S2
SMILES:	NNC(=O)CSSCC(=O)NN
Mol. weight [g/mol]:	210.28
CAS:	6854-84-8

Physical Properties

Property code	Value	Unit	Source
gf	102.88	kJ/mol	Joback Method
hf	-92.79	kJ/mol	Joback Method
hfus	38.17	kJ/mol	Joback Method
hvap	85.78	kJ/mol	Joback Method
log10ws	-1.03		Crippen Method
logp	-1.652		Crippen Method
mcvol	142.980	ml/mol	McGowan Method
pc	5899.00	kPa	Joback Method
tb	781.62	K	Joback Method
tc	1027.78	K	Joback Method
tf	575.34	K	Joback Method
vc	0.507	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	371.14	J/molxK	781.62	Joback Method
cpg	378.83	J/molxK	822.65	Joback Method
cpg	385.70	J/molxK	863.67	Joback Method
cpg	391.75	J/molxK	904.70	Joback Method
cpg	396.97	J/molxK	945.73	Joback Method
cpg	401.38	J/molxK	986.75	Joback Method
cpg	404.98	J/molxK	1027.78	Joback Method

Sources

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=C6854848&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.cheméo.com/doc/models/crippen_log10ws

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
h vap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
m cvol:	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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