2,5-Dimethoxybenzhydrazide

Inchi: InChI=1S/C9H12N2O3/c1-13-6-3-4-8(14-2)7(5-6)9(12)11-10/h3-5H,10H2,1-2H3,(H,11,12
InchiKey: CSGBXTAUNHUMQE-UHFFFAOYSA-N
Formula: C9H12N2O3
SMILES: COc1ccc(OC)c(C(=O)NN)c1
Mol. weight [g/mol]: 196.20
CAS: 17894-25-6

Physical Properties

Property code	Value	Unit	Source
gf	-65.03	kJ/mol	Joback Method
hf	-305.26	kJ/mol	Joback Method
hfus	26.60	kJ/mol	Joback Method
hvap	67.87	kJ/mol	Joback Method
log10ws	-2.06		Crippen Method
logp	0.307		Crippen Method
mcvol	147.180	ml/mol	McGowan Method
pc	3534.66	kPa	Joback Method
tb	663.37	K	Joback Method
tc	886.29	K	Joback Method
tf	472.96	K	Joback Method
vc	0.537	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	378.95	J/mol×K	663.37	Joback Method
cpg	390.72	J/mol×K	700.52	Joback Method
cpg	401.75	J/mol×K	737.68	Joback Method
cpg	412.04	J/mol×K	774.83	Joback Method
cpg	421.57	J/mol×K	811.99	Joback Method
cpg	430.33	J/mol×K	849.14	Joback Method
cpg	438.33	J/mol×K	886.29	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=C17894256&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.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
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