Valeric acid hydrazide

Other names: Pentanoic acid, hydrazide
valerohydrazide
Inchi: InChI=1S/C5H12N2O/c1-2-3-4-5(8)7-6/h2-4,6H2,1H3,(H,7,8)
InchiKey: PJBQYCIDGYKEMN-UHFFFAOYSA-N
Formula: C5H12N2O
SMILES: CCCCC(O)=NN
Mol. weight [g/mol]: 116.16
CAS: 38291-82-6

Physical Properties

Property code	Value	Unit	Source
hf	-192.54	kJ/mol	Joback Method
hvap	57.44	kJ/mol	Joback Method
log10ws	-1.32		Crippen Method
logp	1.007		Crippen Method
mcvol	102.840	ml/mol	McGowan Method
pc	3677.55	kPa	Joback Method
tb	555.07	K	Joback Method
tc	749.51	K	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C38291826&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

hf: Enthalpy of formation 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