3-Piperidinecarboxamide, N,N-diethyl-

Other names:	N,N-Diethylnipecotamide
	Nipecotamide, N,N-diethyl-
	3-(N,N-Diethylcarbamoyl)piperidine
	N,N-Diethylnipeotamide
	N,N-diethylpiperidine-3-carboxamide
Inchi:	InChI=1S/C10H20N2O/c1-3-12(4-2)10(13)9-6-5-7-11-8-9/h9,11H,3-8H2,1-2H3
InchiKey:	ZXQKYQVJDRTTLZ-UHFFFAOYSA-N
Formula:	C10H20N2O
SMILES:	CCN(CC)C(=O)C1CCCNC1
Mol. weight [g/mol]:	184.28
CAS:	3367-95-1

Physical Properties

Property code	Value	Unit	Source
gf	127.34	kJ/mol	Joback Method
hf	-202.65	kJ/mol	Joback Method
hfus	27.70	kJ/mol	Joback Method
hvap	53.83	kJ/mol	Joback Method
log10ws	-1.20		Crippen Method
logp	0.854		Crippen Method
mcvol	162.430	ml/mol	McGowan Method
pc	2808.38	kPa	Joback Method
tb	562.61	K	Joback Method
tc	771.81	K	Joback Method
tf	397.27	K	Joback Method
vc	0.590	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	412.79	J/mol×K	562.61	Joback Method
cpg	431.49	J/mol×K	597.48	Joback Method
cpg	449.14	J/mol×K	632.34	Joback Method
cpg	465.77	J/mol×K	667.21	Joback Method

cpg	481.40	J/mol×K	702.07	Joback Method
cpg	496.07	J/mol×K	736.94	Joback Method
cpg	509.80	J/mol×K	771.81	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=C3367951&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