Cyclopentanecarboxamide, N-butyl-N-methyl-

Inchi: InChI=1S/C11H21NO/c1-3-4-9-12(2)11(13)10-7-5-6-8-10/h10H,3-9H2,1-2H3
InchiKey: ILYRBGWZFLTSSQ-UHFFFAOYSA-N
Formula: C11H21NO
SMILES: CCCCN(C)C(=O)C1CCCC1
Mol. weight [g/mol]: 183.29

Physical Properties

Property code	Value	Unit	Source
gf	60.15	kJ/mol	Joback Method
hf	-254.94	kJ/mol	Joback Method
hfus	22.80	kJ/mol	Joback Method
hvap	49.13	kJ/mol	Joback Method
log10ws	-2.43		Crippen Method
logp	2.435		Crippen Method
mcvol	166.540	ml/mol	McGowan Method
pc	2419.50	kPa	Joback Method
rinpol	1645.00		NIST Webbook
rinpol	1645.00		NIST Webbook
tb	532.67	K	Joback Method
tc	727.28	K	Joback Method
tf	307.03	K	Joback Method
vc	0.617	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	411.52	J/mol×K	532.67	Joback Method
cpg	430.08	J/mol×K	565.10	Joback Method
cpg	447.63	J/mol×K	597.54	Joback Method
cpg	464.22	J/mol×K	629.97	Joback Method
cpg	479.88	J/mol×K	662.41	Joback Method
cpg	494.65	J/mol×K	694.84	Joback Method
cpg	508.57	J/mol×K	727.28	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=U415623&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume