Cyclopentanecarboxamide, N-butyl-N-propyl-

Inchi: InChI=1S/C13H25NO/c1-3-5-11-14(10-4-2)13(15)12-8-6-7-9-12/h12H,3-11H2,1-2H3
InchiKey: YGMXVSPQACZNPE-UHFFFAOYSA-N
Formula: C13H25NO
SMILES: CCCCN(CCC)C(=O)C1CCCC1
Mol. weight [g/mol]: 211.34

Physical Properties

Property code	Value	Unit	Source
gf	76.99	kJ/mol	Joback Method
hf	-296.22	kJ/mol	Joback Method
hfus	27.98	kJ/mol	Joback Method
hvap	53.58	kJ/mol	Joback Method
log10ws	-3.26		Crippen Method
logp	3.215		Crippen Method
mcvol	194.720	ml/mol	McGowan Method
pc	2019.95	kPa	Joback Method
rinpol	1781.00		NIST Webbook
rinpol	1781.00		NIST Webbook
tb	578.43	K	Joback Method
tc	768.22	K	Joback Method
tf	329.57	K	Joback Method
vc	0.729	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	513.70	J/mol×K	578.43	Joback Method
cpg	533.16	J/mol×K	610.06	Joback Method
cpg	551.58	J/mol×K	641.69	Joback Method
cpg	569.01	J/mol×K	673.32	Joback Method
cpg	585.48	J/mol×K	704.96	Joback Method
cpg	601.03	J/mol×K	736.59	Joback Method
cpg	615.71	J/mol×K	768.22	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U415624&Units=SI

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