Carbonic acid, monoamide, N-butyl-, menthyl ester

Inchi: InChI=1S/C15H29NO2/c1-5-6-9-16-15(17)18-14-10-12(4)7-8-13(14)11(2)3/h11-14H,5-10

InchiKey: JPMPMMKIDZNAEX-UHFFFAOYSA-N

Formula: C15H29NO2

SMILES: CCCCNC(=O)OC1CC(C)CCC1C(C)C

Mol. weight [g/mol]: 255.40

Physical Properties

Property code	Value	Unit	Source
gf	-62.52	kJ/mol	Joback Method
hf	-535.90	kJ/mol	Joback Method
hfus	32.95	kJ/mol	Joback Method
hvap	64.00	kJ/mol	Joback Method
log10ws	-4.41		Crippen Method
logp	3.973		Crippen Method
mcvol	228.770	ml/mol	McGowan Method
pc	1663.26	kPa	Joback Method
rinpol	1899.00		NIST Webbook
rinpol	1899.00		NIST Webbook
tb	678.83	K	Joback Method
tc	874.82	K	Joback Method
tf	367.53	K	Joback Method
vc	0.860	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	681.62	J/mol×K	678.83	Joback Method
cpg	702.32	J/mol×K	711.50	Joback Method
cpg	721.87	J/mol×K	744.16	Joback Method
cpg	740.28	J/mol×K	776.83	Joback Method
cpg	757.55	J/mol×K	809.49	Joback Method
cpg	773.71	J/mol×K	842.16	Joback Method
cpg	788.77	J/mol×K	874.82	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=U415195&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