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

Inchi: InChI=1S/C14H27NO2/c1-5-8-15-14(16)17-13-9-11(4)6-7-12(13)10(2)3/h10-13H,5-9H2,1

InchiKey: KXDOSIONKLZYKA-UHFFFAOYSA-N

Formula: C14H27NO2

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

Mol. weight [g/mol]: 241.37

Physical Properties

Property code	Value	Unit	Source
gf	-70.94	kJ/mol	Joback Method
hf	-515.26	kJ/mol	Joback Method
hfus	30.36	kJ/mol	Joback Method
hvap	61.77	kJ/mol	Joback Method
log10ws	-3.99		Crippen Method
logp	3.583		Crippen Method
mcvol	214.680	ml/mol	McGowan Method
pc	1801.56	kPa	Joback Method
rinpol	1796.00		NIST Webbook
rinpol	1796.00		NIST Webbook
tb	655.95	K	Joback Method
tc	854.14	K	Joback Method
tf	356.26	K	Joback Method
vc	0.803	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	625.06	J/mol×K	655.95	Joback Method
cpg	645.56	J/mol×K	688.98	Joback Method
cpg	664.94	J/mol×K	722.01	Joback Method
cpg	683.20	J/mol×K	755.05	Joback Method
cpg	700.36	J/mol×K	788.08	Joback Method
cpg	716.42	J/mol×K	821.11	Joback Method
cpg	731.40	J/mol×K	854.14	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=U415193&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