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

Inchi: InChI=1S/C13H25NO2/c1-5-14-13(15)16-12-8-10(4)6-7-11(12)9(2)3/h9-12H,5-8H2,1-4H

InchiKey: JQFDIOKZPWALRI-UHFFFAOYSA-N

Formula: C13H25NO2

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

Mol. weight [g/mol]: 227.34

Physical Properties

Property code	Value	Unit	Source
gf	-79.36	kJ/mol	Joback Method
hf	-494.62	kJ/mol	Joback Method
hfus	27.77	kJ/mol	Joback Method
hvap	59.55	kJ/mol	Joback Method
log10ws	-3.58		Crippen Method
logp	3.193		Crippen Method
mcvol	200.590	ml/mol	McGowan Method
pc	1957.87	kPa	Joback Method
rinpol	1750.00		NIST Webbook
rinpol	1750.00		NIST Webbook
tb	633.07	K	Joback Method
tc	833.81	K	Joback Method
tf	344.99	K	Joback Method
vc	0.748	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	569.74	J/mol×K	633.07	Joback Method
cpg	589.98	J/mol×K	666.53	Joback Method
cpg	609.12	J/mol×K	699.98	Joback Method
cpg	627.18	J/mol×K	733.44	Joback Method
cpg	644.16	J/mol×K	766.89	Joback Method
cpg	660.07	J/mol×K	800.35	Joback Method
cpg	674.92	J/mol×K	833.81	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U415192&Units=SI
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

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