Isoborneol, carbamate

Inchi: InChI=1S/C10H17NO2/c1-10(2)6-3-4-7(10)8(5-6)13-9(11)12/h6-8H,3-5H2,1-2H3,(H2,11,
InchiKey: UNPHFGAMYWCBNB-RNJXMRFFSA-N
Formula: C10H17NO2
SMILES: CC1(C)C2CCC1C(OC(N)=O)C2
Mol. weight [g/mol]: 183.25

Physical Properties

Property code	Value	Unit	Source
gf	-45.66	kJ/mol	Joback Method
hf	-346.74	kJ/mol	Joback Method
hfus	19.65	kJ/mol	Joback Method
hvap	55.88	kJ/mol	Joback Method
log10ws	-2.46		Crippen Method
logp	1.906		Crippen Method
mcvol	147.460	ml/mol	McGowan Method
pc	3049.04	kPa	Joback Method
rinpol	1494.00		NIST Webbook
tb	585.67	K	Joback Method
tc	808.77	K	Joback Method
tf	405.66	K	Joback Method
vc	0.550	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	406.76	J/mol×K	585.67	Joback Method
cpg	423.69	J/mol×K	622.85	Joback Method
cpg	439.56	J/mol×K	660.04	Joback Method
cpg	454.52	J/mol×K	697.22	Joback Method
cpg	468.72	J/mol×K	734.40	Joback Method
cpg	482.30	J/mol×K	771.59	Joback Method
cpg	495.40	J/mol×K	808.77	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=R579458&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