Bicyclo(2.2.1)-5-heptene-2-carboxamide

Other names: 5-Norbornene-2-carboxamide
endo-5-Norbornene-2-carboxamide
Inchi: InChI=1S/C8H11NO/c9-8(10)7-4-5-1-2-6(7)3-5/h1-2,5-7H,3-4H2,(H2,9,10)
InchiKey: ZTUUVDYQBLRAAC-UHFFFAOYSA-N
Formula: C8H11NO
SMILES: NC(=O)C1CC2C=CC1C2
Mol. weight [g/mol]: 137.18
CAS: 95-17-0

Physical Properties

Property code	Value	Unit	Source
gf	85.66	kJ/mol	Joback Method
hf	-110.36	kJ/mol	Joback Method
hfus	19.74	kJ/mol	Joback Method
hvap	50.77	kJ/mol	Joback Method
log10ws	-1.30		Crippen Method
logp	0.684		Crippen Method
mcvol	109.110	ml/mol	McGowan Method
pc	4015.93	kPa	Joback Method
tb	521.08	K	Joback Method
tc	748.40	K	Joback Method
tf	341.99	K	Joback Method
vc	0.409	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	268.25	J/mol×K	521.08	Joback Method
cpg	282.89	J/mol×K	558.97	Joback Method
cpg	296.45	J/mol×K	596.85	Joback Method
cpg	309.01	J/mol×K	634.74	Joback Method
cpg	320.64	J/mol×K	672.63	Joback Method
cpg	331.42	J/mol×K	710.51	Joback Method
cpg	341.42	J/mol×K	748.40	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=C95170&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume