Bicyclo(2.2.1)hept-5-ene-2-carbonitrile, endo-

Other names: 5-Norbornene-2-carbonitrile, endo-
endo-2-Cyanobicyclo(2-2-1)hept-5-ene
endo-Bicyclo[2.2.1]hept-5-ene-2-carbonitrile
Inchi: InChI=1S/C8H9N/c9-5-8-4-6-1-2-7(8)3-6/h1-2,6-8H,3-4H2/t6?,7?,8-/m0/s1
InchiKey: BMAXQTDMWYDIJX-RRQHEKLDSA-N
Formula: C8H9N
SMILES: N#CC1CC2C=CC1C2
Mol. weight [g/mol]: 119.16
CAS: 2888-90-6

Physical Properties

Property code	Value	Unit	Source
gf	281.31	kJ/mol	Joback Method
hf	133.31	kJ/mol	Joback Method
hfus	14.44	kJ/mol	Joback Method
hvap	43.86	kJ/mol	Joback Method
log10ws	-1.96		Crippen Method
logp	1.722		Crippen Method
mcvol	98.940	ml/mol	McGowan Method
pc	3368.44	kPa	Joback Method
tb	496.76	K	Joback Method
tc	722.79	K	Joback Method
tf	273.79	K	Joback Method
vc	0.401	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	224.91	J/mol×K	496.76	Joback Method
cpg	238.38	J/mol×K	534.43	Joback Method
cpg	250.85	J/mol×K	572.10	Joback Method
cpg	262.40	J/mol×K	609.78	Joback Method
cpg	273.10	J/mol×K	647.45	Joback Method
cpg	283.03	J/mol×K	685.12	Joback Method

cpg	292.24	J/mol×K	722.79	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=C2888906&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume