cis,cis-Bicyclo[6.1.0]non-3-ene

Inchi: InChI=1S/C9H14/c1-2-4-6-9-7-8(9)5-3-1/h1,3,8-9H,2,4-7H2/b3-1-/t8-,9+/m1/s1
InchiKey: HTNGHCFQBNOUQK-LGSOUNPISA-N
Formula: C9H14
SMILES: C1=CCC2CC2CCC1
Mol. weight [g/mol]: 122.21

Physical Properties

Property code	Value	Unit	Source
gf	140.06	kJ/mol	Joback Method
hf	-44.19	kJ/mol	Joback Method
hfus	10.26	kJ/mol	Joback Method
hvap	36.26	kJ/mol	Joback Method
log10ws	-2.75		Crippen Method
logp	2.753		Crippen Method
mcvol	111.650	ml/mol	McGowan Method
pc	3415.86	kPa	Joback Method
rinpol	1012.00		NIST Webbook
tb	430.77	K	Joback Method
tc	649.36	K	Joback Method
tf	217.27	K	Joback Method
vc	0.415	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	226.80	J/mol×K	430.77	Joback Method
cpg	310.78	J/mol×K	612.93	Joback Method
cpg	296.19	J/mol×K	576.50	Joback Method
cpg	280.56	J/mol×K	540.06	Joback Method
cpg	263.83	J/mol×K	503.63	Joback Method
cpg	245.93	J/mol×K	467.20	Joback Method
cpg	324.39	J/mol×K	649.36	Joback Method
dvisc	0.0004387	Pa×s	430.77	Joback Method
dvisc	0.0005047	Pa×s	395.19	Joback Method

dvisc	0.0005970	Pa×s	359.60	Joback Method
dvisc	0.0007327	Pa×s	324.02	Joback Method
dvisc	0.0009458	Pa×s	288.44	Joback Method
dvisc	0.0013118	Pa×s	252.85	Joback Method
dvisc	0.0020254	Pa×s	217.27	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=R293486&Units=SI

Legend

cpg: Ideal gas heat capacity
dvisc: Dynamic viscosity
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