Bicyclo[4.2.1]non-1(8)-ene

Inchi: InChI=1S/C9H14/c1-2-4-9-6-5-8(3-1)7-9/h5,9H,1-4,6-7H2
InchiKey: NCQNMEMRZWQKGX-UHFFFAOYSA-N
Formula: C9H14
SMILES: C1=C2CCCCC(C1)C2
Mol. weight [g/mol]: 122.21
CAS: 23057-35-4

Physical Properties

Property code	Value	Unit	Source
gf	138.14	kJ/mol	Joback Method
hf	49.80	kJ/mol	NIST Webbook
hfus	8.80	kJ/mol	Joback Method
hvap	37.23	kJ/mol	Joback Method
log10ws	-2.99		Crippen Method
logp	2.897		Crippen Method
mcvol	111.650	ml/mol	McGowan Method
pc	3488.88	kPa	Joback Method
tb	440.42	K	Joback Method
tc	660.88	K	Joback Method
tf	234.03	K	Joback Method
vc	0.416	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	228.36	J/mol×K	440.42	Joback Method
cpg	246.56	J/mol×K	477.16	Joback Method
cpg	263.58	J/mol×K	513.91	Joback Method
cpg	279.48	J/mol×K	550.65	Joback Method
cpg	294.33	J/mol×K	587.39	Joback Method
cpg	308.17	J/mol×K	624.13	Joback Method
cpg	321.09	J/mol×K	660.88	Joback Method
dvisc	0.0024329	Pa×s	234.03	Joback Method
dvisc	0.0015134	Pa×s	268.43	Joback Method

dvisc	0.0010486	Pa×s	302.83	Joback Method
dvisc	0.0007830	Pa×s	337.22	Joback Method
dvisc	0.0006172	Pa×s	371.62	Joback Method
dvisc	0.0005065	Pa×s	406.02	Joback Method
dvisc	0.0004287	Pa×s	440.42	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=C23057354&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume