Bicyclo[2.2.2]oct-2-ene,5-(1-methylethyl)-,(1«alpha

Inchi: InChI=1S/C11H18/c1-8(2)11-7-9-3-5-10(11)6-4-9/h3,5,8-11H,4,6-7H2,1-2H3/t9?,10?,11-/

InchiKey: MWCYZAVQYCJVIJ-ILDUYXDCSA-N

Formula: C11H18

SMILES: CC(C)C1CC2C=CC1CC2

Mol. weight [g/mol]: 150.26

CAS: 106623-87-4

Physical Properties

Property code	Value	Unit	Source
gf	158.85	kJ/mol	Joback Method
hf	-50.60 ± 4.20	kJ/mol	NIST Webbook
hfus	15.09	kJ/mol	Joback Method
hvap	39.84	kJ/mol	Joback Method
log10ws	-3.10		Crippen Method
logp	3.245		Crippen Method
mcvol	139.830	ml/mol	McGowan Method
pc	2621.78	kPa	Joback Method
tb	467.15	K	Joback Method
tc	676.19	K	Joback Method
tf	224.09	K	Joback Method
vc	0.528	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	317.17	J/mol×K	467.15	Joback Method
cpg	408.10	J/mol×K	641.35	Joback Method
cpg	392.13	J/mol×K	606.51	Joback Method
cpg	375.11	J/mol×K	571.67	Joback Method
cpg	356.98	J/mol×K	536.83	Joback Method
cpg	337.69	J/mol×K	501.99	Joback Method
cpg	423.08	J/mol×K	676.19	Joback Method
dvisc	0.0005245	Pa×s	467.15	Joback Method
dvisc	0.0005731	Pa×s	426.64	Joback Method

dvisc	0.0006379	Pa×s	386.13	Joback Method
dvisc	0.0007280	Pa×s	345.62	Joback Method
dvisc	0.0008607	Pa×s	305.11	Joback Method
dvisc	0.0010709	Pa×s	264.60	Joback Method
dvisc	0.0014422	Pa×s	224.09	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=C106623874&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume