3,3'-Bicyclopentenyl

Inchi: InChI=1S/C10H14/c1-2-6-9(5-1)10-7-3-4-8-10/h1,3,5,7,9-10H,2,4,6,8H2
InchiKey: VJEREEILRKZBKE-UHFFFAOYSA-N
Formula: C10H14
SMILES: C1=CC(C2C=CCC2)CC1
Mol. weight [g/mol]: 134.22
CAS: 5009-17-6

Physical Properties

Property code	Value	Unit	Source
gf	166.34	kJ/mol	Joback Method
hf	-13.21	kJ/mol	Joback Method
hfus	11.97	kJ/mol	Joback Method
hvap	38.95	kJ/mol	Joback Method
log10ws	-3.02		Crippen Method
logp	2.919		Crippen Method
mcvol	121.440	ml/mol	McGowan Method
pc	3280.28	kPa	Joback Method
tb	457.08	K	Joback Method
tc	683.89	K	Joback Method
tf	225.78	K	Joback Method
vc	0.450	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	255.60	J/mol×K	457.08	Joback Method
cpg	275.42	J/mol×K	494.88	Joback Method
cpg	293.93	J/mol×K	532.68	Joback Method
cpg	311.19	J/mol×K	570.49	Joback Method
cpg	327.26	J/mol×K	608.29	Joback Method
cpg	342.20	J/mol×K	646.09	Joback Method
cpg	356.09	J/mol×K	683.89	Joback Method
dvisc	0.0027597	Pa×s	225.78	Joback Method
dvisc	0.0015608	Pa×s	264.33	Joback Method

dvisc	0.0010206	Pa×s	302.88	Joback Method
dvisc	0.0007345	Pa×s	341.43	Joback Method
dvisc	0.0005651	Pa×s	379.98	Joback Method
dvisc	0.0004563	Pa×s	418.53	Joback Method
dvisc	0.0003820	Pa×s	457.08	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=C5009176&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