Bicyclopentyl-3,3'-diene

Inchi: InChI=1S/C10H14/c1-2-6-9(5-1)10-7-3-4-8-10/h1-4,9-10H,5-8H2
InchiKey: HRVDKVCPNRGMTM-UHFFFAOYSA-N
Formula: C10H14
SMILES: C1=CCC(C2CC=CC2)C1
Mol. weight [g/mol]: 134.22

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
rinpol	1041.00		NIST Webbook
rinpol	1070.00		NIST Webbook
rinpol	1041.00		NIST Webbook
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=R136373&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