Bicyclo[2.2.1]heptane, 2-(1-methoxyethenyl)-, endo-

Inchi: InChI=1S/C10H16O/c1-7(11-2)10-6-8-3-4-9(10)5-8/h8-10H,1,3-6H2,2H3/t8?,9?,10-/m1/s
InchiKey: XYRFECCOFZROIJ-UDNWOFFPSA-N
Formula: C10H16O
SMILES: C=C(OC)C1CC2CCC1C2
Mol. weight [g/mol]: 152.23
CAS: 103582-43-0

Physical Properties

Property code	Value	Unit	Source
gf	109.30	kJ/mol	Joback Method
hf	-147.21	kJ/mol	Joback Method
hfus	15.49	kJ/mol	Joback Method
hvap	39.36	kJ/mol	Joback Method
log10ws	-2.51		Crippen Method
logp	2.583		Crippen Method
mcvol	131.610	ml/mol	McGowan Method
pc	2781.78	kPa	Joback Method
tb	460.26	K	Joback Method
tc	664.25	K	Joback Method
tf	237.09	K	Joback Method
vc	0.500	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	296.89	J/mol×K	460.26	Joback Method
cpg	315.38	J/mol×K	494.26	Joback Method
cpg	332.81	J/mol×K	528.26	Joback Method
cpg	349.23	J/mol×K	562.25	Joback Method
cpg	364.70	J/mol×K	596.25	Joback Method
cpg	379.25	J/mol×K	630.25	Joback Method
cpg	392.95	J/mol×K	664.25	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C103582430&Units=SI
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

Legend

cpg:	Ideal gas heat capacity
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