Bicyclo[2.2.1]hept-2-ene, 5-(1-methoxyethylidene)-, (E)-

Inchi: InChI=1S/C10H14O/c1-7(11-2)10-6-8-3-4-9(10)5-8/h3-4,8-10H,1,5-6H2,2H3
InchiKey: UHVCEHVDJBKVEQ-UHFFFAOYSA-N
Formula: C10H14O
SMILES: C=C(OC)C1CC2C=CC1C2
Mol. weight [g/mol]: 150.22
CAS: 103582-49-6

Physical Properties

Property code	Value	Unit	Source
gf	139.26	kJ/mol	Joback Method
hf	-89.43	kJ/mol	Joback Method
hfus	16.72	kJ/mol	Joback Method
hvap	39.66	kJ/mol	Joback Method
log10ws	-2.36		Crippen Method
logp	2.359		Crippen Method
mcvol	127.310	ml/mol	McGowan Method
pc	2890.51	kPa	Joback Method
tb	459.42	K	Joback Method
tc	665.48	K	Joback Method
tf	237.85	K	Joback Method
vc	0.486	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	281.57	J/mol×K	459.42	Joback Method
cpg	298.86	J/mol×K	493.76	Joback Method
cpg	315.11	J/mol×K	528.11	Joback Method
cpg	330.38	J/mol×K	562.45	Joback Method
cpg	344.72	J/mol×K	596.80	Joback Method
cpg	358.18	J/mol×K	631.14	Joback Method
cpg	370.82	J/mol×K	665.48	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C103582496&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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