(Z)-5-(1-Methoxyethylidenebicyclo[2.2.1]hept-2-en

Inchi: InChI=1S/C10H14O/c1-7(11-2)10-6-8-3-4-9(10)5-8/h3-4,8-9H,5-6H2,1-2H3/b10-7+
InchiKey: WSAAWMQXWNFTNH-JXMROGBWSA-N
Formula: C10H14O
SMILES: COC(C)=C1CC2C=CC1C2
Mol. weight [g/mol]: 150.22
CAS: 103582-48-5

Physical Properties

Property code	Value	Unit	Source
gf	104.59	kJ/mol	Joback Method
hf	-118.49	kJ/mol	Joback Method
hfus	17.25	kJ/mol	Joback Method
hvap	41.42	kJ/mol	Joback Method
log10ws	-2.60		Crippen Method
logp	2.503		Crippen Method
mcvol	127.310	ml/mol	McGowan Method
pc	2953.69	kPa	Joback Method
tb	474.05	K	Joback Method
tc	683.25	K	Joback Method
tf	254.21	K	Joback Method
vc	0.489	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	283.55	J/mol×K	474.05	Joback Method
cpg	299.82	J/mol×K	508.92	Joback Method
cpg	315.09	J/mol×K	543.78	Joback Method
cpg	329.41	J/mol×K	578.65	Joback Method
cpg	342.85	J/mol×K	613.52	Joback Method
cpg	355.46	J/mol×K	648.38	Joback Method
cpg	367.30	J/mol×K	683.25	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C103582485&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