Bicyclo[2.2.2]oct-2-ene, 5-ethyl-, (1«alpha»,4«alpha»,5«alpha»)-

Inchi: InChI=1S/C10H16/c1-2-9-7-8-3-5-10(9)6-4-8/h3,5,8-10H,2,4,6-7H2,1H3/t8?,9-,10?/m1/s1

InchiKey: FTOFVYGLRHSFAM-HWOCKDDLSA-N

Formula: C10H16

SMILES: CCC1CC2C=CC1CC2

Mol. weight [g/mol]: 136.23

CAS: 106623-86-3

Physical Properties

Property code	Value	Unit	Source
gf	152.87	kJ/mol	Joback Method
hf	-30.00 ± 4.20	kJ/mol	NIST Webbook
hfus	16.02	kJ/mol	Joback Method
hvap	38.01	kJ/mol	Joback Method
log10ws	-2.93		Crippen Method
logp	2.999		Crippen Method
mcvol	125.740	ml/mol	McGowan Method
pc	2875.03	kPa	Joback Method
tb	444.71	K	Joback Method
tc	651.61	K	Joback Method
tf	227.82	K	Joback Method
vc	0.478	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	271.38	J/mol×K	444.71	Joback Method
cpg	290.61	J/mol×K	479.19	Joback Method
cpg	308.70	J/mol×K	513.68	Joback Method
cpg	325.70	J/mol×K	548.16	Joback Method
cpg	341.67	J/mol×K	582.64	Joback Method
cpg	356.67	J/mol×K	617.12	Joback Method
cpg	370.74	J/mol×K	651.61	Joback Method
dvisc	0.0009901	Pa×s	227.82	Joback Method
dvisc	0.0008249	Pa×s	263.97	Joback Method

dvisc	0.0007182	Pa×s	300.12	Joback Method
dvisc	0.0006441	Pa×s	336.26	Joback Method
dvisc	0.0005901	Pa×s	372.41	Joback Method
dvisc	0.0005490	Pa×s	408.56	Joback Method
dvisc	0.0005168	Pa×s	444.71	Joback Method

Sources

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=C106623863&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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