(5R)-5-Hydroxymethylbicyclo[2.2.1]hept-2-ene

Inchi: InChI=1S/C8H12O/c9-5-8-4-6-1-2-7(8)3-6/h1-2,6-9H,3-5H2/t6?,7?,8-/m0/s1
InchiKey: LUMNWCHHXDUKFI-RRQHEKLDSA-N
Formula: C8H12O
SMILES: OCC1CC2C=CC1C2
Mol. weight [g/mol]: 124.18

Physical Properties

Property code	Value	Unit	Source
gf	11.31	kJ/mol	Joback Method
hf	-183.80	kJ/mol	Joback Method
hfus	17.03	kJ/mol	Joback Method
hvap	50.06	kJ/mol	Joback Method
log10ws	-1.35		Crippen Method
logp	1.191		Crippen Method
mcvol	103.430	ml/mol	McGowan Method
pc	3877.12	kPa	Joback Method
rinpol	1050.00		NIST Webbook
tb	486.86	K	Joback Method
tc	679.37	K	Joback Method
tf	269.62	K	Joback Method
vc	0.394	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	245.09	J/mol×K	486.86	Joback Method
cpg	258.45	J/mol×K	518.95	Joback Method
cpg	270.99	J/mol×K	551.03	Joback Method
cpg	282.77	J/mol×K	583.12	Joback Method
cpg	293.82	J/mol×K	615.20	Joback Method
cpg	304.20	J/mol×K	647.29	Joback Method
cpg	313.95	J/mol×K	679.37	Joback Method
dvisc	0.0076807	Pa×s	269.62	Joback Method
dvisc	0.0037686	Pa×s	305.83	Joback Method

dvisc	0.0021499	Pa×s	342.03	Joback Method
dvisc	0.0013656	Pa×s	378.24	Joback Method
dvisc	0.0009390	Pa×s	414.45	Joback Method
dvisc	0.0006857	Pa×s	450.65	Joback Method
dvisc	0.0005247	Pa×s	486.86	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=R557418&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume