Bicyclo[2.2.1]hept-2-en-7-ol, syn-

Inchi: InChI=1S/C7H10O/c8-7-5-1-2-6(7)4-3-5/h1-2,5-8H,3-4H2
InchiKey: PSKWDFVNXXATCG-UHFFFAOYSA-N
Formula: C7H10O
SMILES: OC1C2C=CC1CC2
Mol. weight [g/mol]: 110.15
CAS: 13118-70-2

Physical Properties

Property code	Value	Unit	Source
gf	2.89	kJ/mol	Joback Method
hf	-163.16	kJ/mol	Joback Method
hfus	14.44	kJ/mol	Joback Method
hvap	47.84	kJ/mol	Joback Method
ie	9.41	eV	NIST Webbook
log10ws	-1.29		Crippen Method
logp	0.943		Crippen Method
mcvol	89.340	ml/mol	McGowan Method
pc	4385.77	kPa	Joback Method
tb	463.98	K	Joback Method
tc	658.77	K	Joback Method
tf	258.35	K	Joback Method
vc	0.338	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	202.39	J/mol×K	463.98	Joback Method
cpg	214.87	J/mol×K	496.44	Joback Method
cpg	226.55	J/mol×K	528.91	Joback Method
cpg	237.49	J/mol×K	561.37	Joback Method
cpg	247.73	J/mol×K	593.84	Joback Method
cpg	257.31	J/mol×K	626.30	Joback Method
cpg	266.29	J/mol×K	658.77	Joback Method
dvisc	0.0075063	Pa×s	258.35	Joback Method

dvisc	0.0037559	Pa×s	292.62	Joback Method
dvisc	0.0021730	Pa×s	326.89	Joback Method
dvisc	0.0013948	Pa×s	361.16	Joback Method
dvisc	0.0009668	Pa×s	395.44	Joback Method
dvisc	0.0007104	Pa×s	429.71	Joback Method
dvisc	0.0005464	Pa×s	463.98	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=C13118702&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
ie:	Ionization energy
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