10-Hydroxy-6,10-epoxy-7(14)-isodaucane

Inchi: InChI=1S/C15H26O2/c1-9(2)11-6-7-14(4)12(11)13-10(3)5-8-15(14,16)17-13/h9-13,16H,5
InchiKey: ISDUGTJYWDYHCV-TZUIHXBYSA-N
Formula: C15H26O2
SMILES: CC(C)C1CCC2(C)C1C1OC2(O)CCC1C
Mol. weight [g/mol]: 238.37

Physical Properties

Property code	Value	Unit	Source
gf	-26.02	kJ/mol	Joback Method
hf	-466.90	kJ/mol	Joback Method
hfus	23.97	kJ/mol	Joback Method
hvap	66.64	kJ/mol	Joback Method
log10ws	-3.65		Crippen Method
logp	3.192		Crippen Method
mcvol	201.370	ml/mol	McGowan Method
pc	2191.78	kPa	Joback Method
ripol	2493.00		NIST Webbook
tb	676.52	K	Joback Method
tc	884.86	K	Joback Method
tf	413.06	K	Joback Method
vc	0.757	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	634.26	J/mol×K	676.52	Joback Method
cpg	653.94	J/mol×K	711.24	Joback Method
cpg	672.84	J/mol×K	745.97	Joback Method
cpg	691.20	J/mol×K	780.69	Joback Method
cpg	709.24	J/mol×K	815.41	Joback Method
cpg	727.20	J/mol×K	850.14	Joback Method
cpg	745.31	J/mol×K	884.86	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=R419331&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
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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume