cis-1,2-Limonene oxide

Inchi: InChI=1S/C10H16O/c1-7(2)8-4-5-10(3)9(6-8)11-10/h8-9H,1,4-6H2,2-3H3/t8-,9-,10+/m0/s
InchiKey: CCEFMUBVSUDRLG-LPEHRKFASA-N
Formula: C10H16O
SMILES: C=C(C)C1CCC2(C)OC2C1
Mol. weight [g/mol]: 152.23

Physical Properties

Property code	Value	Unit	Source
gf	122.69	kJ/mol	Joback Method
hf	-131.75	kJ/mol	Joback Method
hfus	15.99	kJ/mol	Joback Method
hvap	40.31	kJ/mol	Joback Method
log10ws	-2.72		Crippen Method
logp	2.520		Crippen Method
mcvol	131.610	ml/mol	McGowan Method
pc	2944.08	kPa	Joback Method
ripol	1458.00		NIST Webbook
tb	465.03	K	Joback Method
tc	678.77	K	Joback Method
tf	265.33	K	Joback Method
vc	0.501	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	303.56	J/mol×K	465.03	Joback Method
cpg	322.20	J/mol×K	500.65	Joback Method
cpg	339.41	J/mol×K	536.28	Joback Method
cpg	355.33	J/mol×K	571.90	Joback Method
cpg	370.12	J/mol×K	607.52	Joback Method
cpg	383.92	J/mol×K	643.14	Joback Method
cpg	396.88	J/mol×K	678.77	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=R591334&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