cis-p-Mentha-3-en-1,2-diol

Inchi: InChI=1S/C10H18O2/c1-7(2)8-4-5-10(3,12)9(11)6-8/h6-7,9,11-12H,4-5H2,1-3H3/t9-,10+/
InchiKey: QQMJLNCENDJRCL-VHSXEESVSA-N
Formula: C10H18O2
SMILES: CC(C)C1=CC(O)C(C)(O)CC1
Mol. weight [g/mol]: 170.25

Physical Properties

Property code	Value	Unit	Source
gf	-211.18	kJ/mol	Joback Method
hf	-463.94	kJ/mol	Joback Method
hfus	13.75	kJ/mol	Joback Method
hvap	70.75	kJ/mol	Joback Method
log10ws	-2.27		Crippen Method
logp	1.475		Crippen Method
mcvol	148.340	ml/mol	McGowan Method
pc	3272.78	kPa	Joback Method
ripol	2184.00		NIST Webbook
ripol	2184.00		NIST Webbook
tb	631.38	K	Joback Method
tc	820.14	K	Joback Method
tf	349.42	K	Joback Method
vc	0.543	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	409.20	J/mol×K	631.38	Joback Method
cpg	422.07	J/mol×K	662.84	Joback Method
cpg	434.35	J/mol×K	694.30	Joback Method
cpg	446.12	J/mol×K	725.76	Joback Method
cpg	457.44	J/mol×K	757.22	Joback Method
cpg	468.40	J/mol×K	788.68	Joback Method
cpg	479.06	J/mol×K	820.14	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R560895&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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