cis-p-Menth-2-en-1,8-diol

Other names: p-Menth-2-en-1,8-diol, cis
cis-p-menth-2-ene-1,8-diol
Inchi: InChI=1S/C10H18O2/c1-9(2,11)8-4-6-10(3,12)7-5-8/h4,6,8,11-12H,5,7H2,1-3H3/t8-,10+/
InchiKey: XWFVRMWMBYDDFY-SCZZXKLOSA-N
Formula: C10H18O2
SMILES: CC1(O)C=CC(C(C)(C)O)CC1
Mol. weight [g/mol]: 170.25

Physical Properties

Property code	Value	Unit	Source
gf	-196.27	kJ/mol	Joback Method
hf	-455.94	kJ/mol	Joback Method
hfus	10.25	kJ/mol	Joback Method
hvap	69.18	kJ/mol	Joback Method
log10ws	-2.27		Crippen Method
logp	1.475		Crippen Method
mcvol	148.340	ml/mol	McGowan Method
pc	3372.36	kPa	Joback Method
rinpol	1276.00		NIST Webbook
rinpol	1285.00		NIST Webbook
rinpol	1276.00		NIST Webbook
ripol	1797.00		NIST Webbook
ripol	1797.00		NIST Webbook
ripol	1797.00		NIST Webbook
tb	623.61	K	Joback Method
tc	817.58	K	Joback Method
tf	354.32	K	Joback Method
vc	0.538	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	412.67	J/mol×K	623.61	Joback Method
cpg	425.96	J/mol×K	655.94	Joback Method

cpg	438.52	J/mol×K	688.27	Joback Method
cpg	450.45	J/mol×K	720.60	Joback Method
cpg	461.85	J/mol×K	752.92	Joback Method
cpg	472.82	J/mol×K	785.25	Joback Method
cpg	483.45	J/mol×K	817.58	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R31846&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume