p-menth-8(4)-ene-1,2-diol

Other names: p-menth-4(8)-ene-1,2-diol
Inchi: InChI=1S/C10H18O2/c1-7(2)8-4-5-10(3,12)9(11)6-8/h9,11-12H,4-6H2,1-3H3
InchiKey: YSAKJLXQURNWJJ-UHFFFAOYSA-N
Formula: C10H18O2
SMILES: CC(C)=C1CCC(C)(O)C(O)C1
Mol. weight [g/mol]: 170.25

Physical Properties

Property code	Value	Unit	Source
gf	-192.16	kJ/mol	Joback Method
hf	-438.73	kJ/mol	Joback Method
hfus	15.45	kJ/mol	Joback Method
hvap	71.05	kJ/mol	Joback Method
log10ws	-2.51		Crippen Method
logp	1.619		Crippen Method
mcvol	148.340	ml/mol	McGowan Method
pc	3291.59	kPa	Joback Method
rinpol	1378.00		NIST Webbook
ripol	2270.00		NIST Webbook
ripol	2270.00		NIST Webbook
ripol	2249.00		NIST Webbook
tb	634.20	K	Joback Method
tc	825.16	K	Joback Method
tf	347.54	K	Joback Method
vc	0.547	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	408.74	J/mol×K	634.20	Joback Method
cpg	421.72	J/mol×K	666.03	Joback Method
cpg	434.10	J/mol×K	697.85	Joback Method
cpg	445.98	J/mol×K	729.68	Joback Method
cpg	457.42	J/mol×K	761.50	Joback Method

cpg	468.52	J/mol×K	793.33	Joback Method
cpg	479.33	J/mol×K	825.16	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=R331741&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