Menth-1-ene-4,8-diol

Inchi: InChI=1S/C10H18O2/c1-8-4-6-10(12,7-5-8)9(2,3)11/h4,11-12H,5-7H2,1-3H3
InchiKey: NATYWEGXDILEEH-UHFFFAOYSA-N
Formula: C10H18O2
SMILES: CC1=CCC(O)(C(C)(C)O)CC1
Mol. weight [g/mol]: 170.25

Physical Properties

Property code	Value	Unit	Source
gf	-198.19	kJ/mol	Joback Method
hf	-447.07	kJ/mol	Joback Method
hfus	8.79	kJ/mol	Joback Method
hvap	70.15	kJ/mol	Joback Method
log10ws	-2.51		Crippen Method
logp	1.619		Crippen Method
mcvol	148.340	ml/mol	McGowan Method
pc	3443.98	kPa	Joback Method
rinpol	1317.00		NIST Webbook
tb	633.26	K	Joback Method
tc	828.28	K	Joback Method
tf	371.08	K	Joback Method
vc	0.539	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	409.69	J/mol×K	633.26	Joback Method
cpg	422.37	J/mol×K	665.76	Joback Method
cpg	434.39	J/mol×K	698.27	Joback Method
cpg	445.84	J/mol×K	730.77	Joback Method
cpg	456.83	J/mol×K	763.27	Joback Method
cpg	467.44	J/mol×K	795.78	Joback Method
cpg	477.80	J/mol×K	828.28	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R287555&Units=SI

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume