8-Hydroxyl-p-menth-4-ene-3-one

Inchi: InChI=1S/C11H18O/c1-8-5-6-9(10(12)7-8)11(2,3)4/h6,8H,5,7H2,1-4H3
InchiKey: VCQIGEOZSGEUBU-UHFFFAOYSA-N
Formula: C11H18O
SMILES: CC1CC=C(C(C)(C)C)C(=O)C1
Mol. weight [g/mol]: 166.26

Physical Properties

Property code	Value	Unit	Source
gf	-33.23	kJ/mol	Joback Method
hf	-316.19	kJ/mol	Joback Method
hfus	9.01	kJ/mol	Joback Method
hvap	44.41	kJ/mol	Joback Method
log10ws	-2.97		Crippen Method
logp	2.958		Crippen Method
mcvol	152.260	ml/mol	McGowan Method
pc	2515.07	kPa	Joback Method
rinpol	1252.00		NIST Webbook
rinpol	1252.00		NIST Webbook
tb	539.36	K	Joback Method
tc	766.45	K	Joback Method
tf	305.03	K	Joback Method
vc	0.567	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	371.76	J/mol×K	539.36	Joback Method
cpg	391.20	J/mol×K	577.21	Joback Method
cpg	409.54	J/mol×K	615.06	Joback Method
cpg	426.79	J/mol×K	652.91	Joback Method
cpg	442.98	J/mol×K	690.76	Joback Method
cpg	458.13	J/mol×K	728.60	Joback Method
cpg	472.25	J/mol×K	766.45	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=R292705&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