1-Hydroxy-p-menth-3-one

Inchi: InChI=1S/C10H18O2/c1-7(2)8-4-5-10(3,12)6-9(8)11/h7-8,12H,4-6H2,1-3H3
InchiKey: MITMEWYOGQSHSC-UHFFFAOYSA-N
Formula: C10H18O2
SMILES: CC(C)C1CCC(C)(O)CC1=O
Mol. weight [g/mol]: 170.25
CAS: 63865-64-5

Physical Properties

Property code	Value	Unit	Source
gf	-217.28	kJ/mol	Joback Method
hf	-495.72	kJ/mol	Joback Method
hfus	8.34	kJ/mol	Joback Method
hvap	57.36	kJ/mol	Joback Method
log10ws	-2.08		Crippen Method
logp	1.763		Crippen Method
mcvol	148.340	ml/mol	McGowan Method
pc	2999.15	kPa	Joback Method
tb	602.88	K	Joback Method
tc	813.34	K	Joback Method
tf	343.54	K	Joback Method
vc	0.545	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	402.08	J/mol×K	602.88	Joback Method
cpg	418.34	J/mol×K	637.96	Joback Method
cpg	433.79	J/mol×K	673.03	Joback Method
cpg	448.52	J/mol×K	708.11	Joback Method
cpg	462.59	J/mol×K	743.19	Joback Method
cpg	476.08	J/mol×K	778.27	Joback Method
cpg	489.06	J/mol×K	813.34	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C63865645&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume