trans-5-Hydroxymentha-1(6),8-dien-2-one

Inchi: InChI=1S/C10H14O2/c1-6(2)8-5-9(11)7(3)4-10(8)12/h4,8,10,12H,1,5H2,2-3H3/t8-,10+/m
InchiKey: IQBZOAYOGMNFPL-SCZZXKLOSA-N
Formula: C10H14O2
SMILES: C=C(C)C1CC(=O)C(C)=CC1O
Mol. weight [g/mol]: 166.22

Physical Properties

Property code	Value	Unit	Source
gf	-109.73	kJ/mol	Joback Method
hf	-343.73	kJ/mol	Joback Method
hfus	16.40	kJ/mol	Joback Method
hvap	59.26	kJ/mol	Joback Method
log10ws	-2.02		Crippen Method
logp	1.459		Crippen Method
mcvol	139.740	ml/mol	McGowan Method
pc	3049.04	kPa	Joback Method
rinpol	1337.00		NIST Webbook
rinpol	1337.00		NIST Webbook
ripol	2338.00		NIST Webbook
ripol	2338.00		NIST Webbook
tb	603.78	K	Joback Method
tc	812.76	K	Joback Method
tf	332.20	K	Joback Method
vc	0.521	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	361.30	J/mol×K	603.78	Joback Method
cpg	375.81	J/mol×K	638.61	Joback Method
cpg	389.57	J/mol×K	673.44	Joback Method
cpg	402.59	J/mol×K	708.27	Joback Method
cpg	414.85	J/mol×K	743.10	Joback Method
cpg	426.36	J/mol×K	777.93	Joback Method

cpg	437.10	J/mol×K	812.76	Joback Method

Sources

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=R229039&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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