1 «alpha»,7 «beta»,9 «alpha»-1-Hydroxy-3,6,6,9-tetramethylbicyclo-[5.4

Inchi: InChI=1S/C15H24O2/c1-10-5-7-14(3,4)13-12(16)11(2)6-8-15(13,17)9-10/h5,11,13,17H,6

InchiKey: MLKJSIIRGIPDGR-IMORHIPNSA-N

Formula: C15H24O2

SMILES: CC1=CCC(C)(C)C2C(=O)C(C)CCC2(O)C1

Mol. weight [g/mol]: 236.35

Physical Properties

Property code	Value	Unit	Source
gf	-129.06	kJ/mol	Joback Method
hf	-491.95	kJ/mol	Joback Method
hfus	14.35	kJ/mol	Joback Method
hvap	68.63	kJ/mol	Joback Method
log10ws	-3.67		Crippen Method
logp	3.099		Crippen Method
mcvol	203.630	ml/mol	McGowan Method
pc	2265.42	kPa	Joback Method
rinpol	1690.00		NIST Webbook
tb	732.71	K	Joback Method
tc	958.18	K	Joback Method
tf	458.73	K	Joback Method
vc	0.755	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	634.24	J/mol×K	732.71	Joback Method
cpg	654.43	J/mol×K	770.29	Joback Method
cpg	674.06	J/mol×K	807.87	Joback Method
cpg	693.32	J/mol×K	845.45	Joback Method
cpg	712.42	J/mol×K	883.03	Joback Method
cpg	731.55	J/mol×K	920.61	Joback Method
cpg	750.92	J/mol×K	958.18	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=R421186&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