Hydroxy-3-endo-bornanone-2

Inchi: InChI=1S/C10H16O2/c1-9(2)6-4-5-10(9,3)8(12)7(6)11/h6-7,11H,4-5H2,1-3H3
InchiKey: AXMKZEOEXSKFJI-UHFFFAOYSA-N
Formula: C10H16O2
SMILES: CC12CCC(C(O)C1=O)C2(C)C
Mol. weight [g/mol]: 168.23
CAS: 21488-68-6

Physical Properties

Property code	Value	Unit	Source
gf	-143.09	kJ/mol	Joback Method
hf	-410.42	kJ/mol	Joback Method
hfus	8.97	kJ/mol	Joback Method
hvap	55.86	kJ/mol	Joback Method
log10ws	-1.73		Crippen Method
logp	1.373		Crippen Method
mcvol	137.480	ml/mol	McGowan Method
pc	3295.37	kPa	Joback Method
tb	597.09	K	Joback Method
tc	811.66	K	Joback Method
tf	403.18	K	Joback Method
vc	0.521	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	384.29	J/mol×K	597.09	Joback Method
cpg	399.17	J/mol×K	632.85	Joback Method
cpg	413.28	J/mol×K	668.61	Joback Method
cpg	426.81	J/mol×K	704.38	Joback Method
cpg	439.96	J/mol×K	740.14	Joback Method
cpg	452.93	J/mol×K	775.90	Joback Method
cpg	465.91	J/mol×K	811.66	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=C21488686&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume