6-Hydroxy-1,1,6-trimethyl-1,2,5,6-tetrahydronapht

Inchi: InChI=1S/C13H18O/c1-12(2)7-4-5-10-9-13(3,14)8-6-11(10)12/h4-6,8,14H,7,9H2,1-3H3
InchiKey: SNOSJZMPQDGXOX-UHFFFAOYSA-N
Formula: C13H18O
SMILES: CC1(O)C=CC2=C(C=CCC2(C)C)C1
Mol. weight [g/mol]: 190.28

Physical Properties

Property code	Value	Unit	Source
gf	54.50	kJ/mol	Joback Method
hf	-162.04	kJ/mol	Joback Method
hfus	11.68	kJ/mol	Joback Method
hvap	61.62	kJ/mol	Joback Method
log10ws	-3.75		Crippen Method
logp	2.980		Crippen Method
mcvol	165.280	ml/mol	McGowan Method
pc	2934.52	kPa	Joback Method
ripol	1973.00		NIST Webbook
ripol	1973.00		NIST Webbook
tb	627.50	K	Joback Method
tc	847.44	K	Joback Method
tf	394.01	K	Joback Method
vc	0.619	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	440.06	J/mol×K	627.50	Joback Method
cpg	455.41	J/mol×K	664.16	Joback Method
cpg	469.99	J/mol×K	700.81	Joback Method
cpg	484.04	J/mol×K	737.47	Joback Method
cpg	497.79	J/mol×K	774.13	Joback Method
cpg	511.48	J/mol×K	810.78	Joback Method
cpg	525.33	J/mol×K	847.44	Joback Method

Sources

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=R494392&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume