Cyclopentylethynylmethyl carbinol

Inchi: InChI=1S/C9H14O/c1-3-9(2,10)8-6-4-5-7-8/h1,8,10H,4-7H2,2H3
InchiKey: POUOCSXBRGBQME-UHFFFAOYSA-N
Formula: C9H14O
SMILES: C#CC(C)(O)C1CCCC1
Mol. weight [g/mol]: 138.21
CAS: 100144-29-4

Physical Properties

Property code	Value	Unit	Source
gf	150.54	kJ/mol	Joback Method
hf	-37.69	kJ/mol	Joback Method
hfus	12.65	kJ/mol	Joback Method
hvap	51.13	kJ/mol	Joback Method
log10ws	-2.41		Crippen Method
logp	1.561		Crippen Method
mcvol	124.080	ml/mol	McGowan Method
pc	3704.46	kPa	Joback Method
tb	499.67	K	Joback Method
tc	706.30	K	Joback Method
tf	312.30	K	Joback Method
vc	0.451	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	288.49	J/mol×K	499.67	Joback Method
cpg	303.20	J/mol×K	534.11	Joback Method
cpg	316.93	J/mol×K	568.55	Joback Method
cpg	329.73	J/mol×K	602.99	Joback Method
cpg	341.67	J/mol×K	637.43	Joback Method
cpg	352.80	J/mol×K	671.86	Joback Method
cpg	363.18	J/mol×K	706.30	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=C100144294&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