Cyclopentane, 1-hydroxymethyl-2-methyl-5-(1-methylethenyl)

Inchi: InChI=1S/C10H18O/c1-7(2)9-5-4-8(3)10(9)6-11/h8-11H,1,4-6H2,2-3H3

InchiKey: MJJQXHAJOZSAFP-UHFFFAOYSA-N

Formula: C10H18O

SMILES: C=C(C)C1CCC(C)C1CO

Mol. weight [g/mol]: 154.25

Physical Properties

Property code	Value	Unit	Source
gf	-3.08	kJ/mol	Joback Method
hf	-266.52	kJ/mol	Joback Method
hfus	19.23	kJ/mol	Joback Method
hvap	53.58	kJ/mol	Joback Method
log10ws	-2.30		Crippen Method
logp	2.217		Crippen Method
mcvol	142.470	ml/mol	McGowan Method
pc	2698.60	kPa	Joback Method
ripol	1776.00		NIST Webbook
tb	522.88	K	Joback Method
tc	709.04	K	Joback Method
tf	249.98	K	Joback Method
vc	0.535	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	350.14	J/mol×K	522.88	Joback Method
cpg	366.05	J/mol×K	553.91	Joback Method
cpg	381.21	J/mol×K	584.93	Joback Method
cpg	395.63	J/mol×K	615.96	Joback Method
cpg	409.33	J/mol×K	646.98	Joback Method
cpg	422.34	J/mol×K	678.01	Joback Method
cpg	434.69	J/mol×K	709.04	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R238538&Units=SI
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

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