Cyclopentane, 1-methyl-1-pentyl

Inchi: InChI=1S/C11H22/c1-3-4-5-8-11(2)9-6-7-10-11/h3-10H2,1-2H3
InchiKey: FTOMLSGOCGTRPP-UHFFFAOYSA-N
Formula: C11H22
SMILES: CCCCCC1(C)CCCC1
Mol. weight [g/mol]: 154.29

Physical Properties

Property code	Value	Unit	Source
gf	72.80	kJ/mol	Joback Method
hf	-194.65	kJ/mol	Joback Method
hfus	11.88	kJ/mol	Joback Method
hvap	39.19	kJ/mol	Joback Method
log10ws	-4.08		Crippen Method
logp	4.147		Crippen Method
mcvol	154.990	ml/mol	McGowan Method
pc	2381.86	kPa	Joback Method
rinpol	1083.00		NIST Webbook
rinpol	1083.00		NIST Webbook
rinpol	1078.00		NIST Webbook
rinpol	1078.00		NIST Webbook
rinpol	1088.00		NIST Webbook
rinpol	1078.00		NIST Webbook
rinpol	1083.00		NIST Webbook
rinpol	1088.00		NIST Webbook
tb	466.60	K	Joback Method
tc	661.92	K	Joback Method
tf	248.53	K	Joback Method
vc	0.591	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	347.11	J/mol×K	466.60	Joback Method
cpg	366.64	J/mol×K	499.15	Joback Method

cpg	385.01	J/mol×K	531.71	Joback Method
cpg	402.31	J/mol×K	564.26	Joback Method
cpg	418.63	J/mol×K	596.82	Joback Method
cpg	434.07	J/mol×K	629.37	Joback Method
cpg	448.72	J/mol×K	661.92	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=R10632&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