Cyclopentane, 1-chloro-1-methyl

Inchi: InChI=1S/C6H11Cl/c1-6(7)4-2-3-5-6/h2-5H2,1H3
InchiKey: XDULUGNXCNQBNS-UHFFFAOYSA-N
Formula: C6H11Cl
SMILES: CC1(Cl)CCCC1
Mol. weight [g/mol]: 118.61

Physical Properties

Property code	Value	Unit	Source
gf	18.77	kJ/mol	Joback Method
hf	-107.19	kJ/mol	Joback Method
hfus	3.13	kJ/mol	Joback Method
hvap	32.44	kJ/mol	Joback Method
log10ws	-2.49		Crippen Method
logp	2.558		Crippen Method
mcvol	96.780	ml/mol	McGowan Method
pc	3877.12	kPa	Joback Method
rinpol	791.00		NIST Webbook
rinpol	791.00		NIST Webbook
rinpol	791.00		NIST Webbook
tb	389.63	K	Joback Method
tc	603.46	K	Joback Method
tf	222.10	K	Joback Method
vc	0.359	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	165.95	J/mol×K	389.63	Joback Method
cpg	180.41	J/mol×K	425.27	Joback Method
cpg	193.70	J/mol×K	460.91	Joback Method
cpg	205.92	J/mol×K	496.55	Joback Method
cpg	217.17	J/mol×K	532.18	Joback Method
cpg	227.59	J/mol×K	567.82	Joback Method
cpg	237.26	J/mol×K	603.46	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=R323136&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume