Cyclopentane, 1-methyl-3-(1-methylpropyl)

Inchi: InChI=1S/C10H20/c1-4-9(3)10-6-5-8(2)7-10/h8-10H,4-7H2,1-3H3
InchiKey: LXTSVBKWKXUESB-UHFFFAOYSA-N
Formula: C10H20
SMILES: CCC(C)C1CCC(C)C1
Mol. weight [g/mol]: 140.27

Physical Properties

Property code	Value	Unit	Source
gf	59.72	kJ/mol	Joback Method
hf	-214.87	kJ/mol	Joback Method
hfus	13.14	kJ/mol	Joback Method
hvap	37.41	kJ/mol	Joback Method
log10ws	-3.18		Crippen Method
logp	3.469		Crippen Method
mcvol	140.900	ml/mol	McGowan Method
pc	2443.48	kPa	Joback Method
rinpol	896.00		NIST Webbook
rinpol	896.00		NIST Webbook
rinpol	891.00		NIST Webbook
rinpol	900.00		NIST Webbook
tb	438.37	K	Joback Method
tc	631.70	K	Joback Method
tf	194.12	K	Joback Method
vc	0.529	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	299.99	J/mol×K	438.37	Joback Method
cpg	319.24	J/mol×K	470.59	Joback Method
cpg	337.59	J/mol×K	502.81	Joback Method
cpg	355.09	J/mol×K	535.03	Joback Method
cpg	371.74	J/mol×K	567.25	Joback Method
cpg	387.57	J/mol×K	599.48	Joback Method

cpg	402.61	J/mol×K	631.70	Joback Method
dvisc	0.0044728	Pa×s	194.12	Joback Method
dvisc	0.0019096	Pa×s	234.83	Joback Method
dvisc	0.0010484	Pa×s	275.54	Joback Method
dvisc	0.0006717	Pa×s	316.25	Joback Method
dvisc	0.0004763	Pa×s	356.95	Joback Method
dvisc	0.0003624	Pa×s	397.66	Joback Method
dvisc	0.0002901	Pa×s	438.37	Joback Method

Sources

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=R143450&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
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

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