Pentane, 1-chloro-4,4-dimethyl

Inchi: InChI=1S/C7H15Cl/c1-7(2,3)5-4-6-8/h4-6H2,1-3H3
InchiKey: LEQALULJXWQRKX-UHFFFAOYSA-N
Formula: C7H15Cl
SMILES: CC(C)(C)CCCCl
Mol. weight [g/mol]: 134.65

Physical Properties

Property code	Value	Unit	Source
gf	-1.03	kJ/mol	Joback Method
hf	-212.30	kJ/mol	Joback Method
hfus	10.67	kJ/mol	Joback Method
hvap	34.27	kJ/mol	Joback Method
log10ws	-2.66		Crippen Method
logp	3.051		Crippen Method
mcvol	121.730	ml/mol	McGowan Method
pc	2746.90	kPa	Joback Method
rinpol	767.00		NIST Webbook
tb	393.76	K	Joback Method
tc	576.83	K	Joback Method
tf	200.99	K	Joback Method
vc	0.466	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	224.71	J/mol×K	393.76	Joback Method
cpg	283.83	J/mol×K	546.32	Joback Method
cpg	273.22	J/mol×K	515.80	Joback Method
cpg	262.03	J/mol×K	485.29	Joback Method
cpg	250.23	J/mol×K	454.78	Joback Method
cpg	237.80	J/mol×K	424.27	Joback Method
cpg	293.88	J/mol×K	576.83	Joback Method
dvisc	0.0003185	Pa×s	393.76	Joback Method
dvisc	0.0004349	Pa×s	361.63	Joback Method

dvisc	0.0006312	Pa×s	329.50	Joback Method
dvisc	0.0009928	Pa×s	297.38	Joback Method
dvisc	0.0017428	Pa×s	265.25	Joback Method
dvisc	0.0035725	Pa×s	233.12	Joback Method
dvisc	0.0092120	Pa×s	200.99	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=R129701&Units=SI

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