1-Methyl-2-pentyl cyclohexene

Inchi: InChI=1S/C12H22/c1-3-4-5-9-12-10-7-6-8-11(12)2/h3-10H2,1-2H3
InchiKey: FLJTYZNRIJWRKK-UHFFFAOYSA-N
Formula: C12H22
SMILES: CCCCCC1=C(C)CCCC1
Mol. weight [g/mol]: 166.30

Physical Properties

Property code	Value	Unit	Source
gf	93.02	kJ/mol	Joback Method
hf	-181.51	kJ/mol	Joback Method
hfus	18.04	kJ/mol	Joback Method
hvap	44.66	kJ/mol	Joback Method
log10ws	-4.59		Crippen Method
logp	4.457		Crippen Method
mcvol	164.780	ml/mol	McGowan Method
pc	2212.45	kPa	Joback Method
rinpol	165.50		NIST Webbook
tb	507.30	K	Joback Method
tc	703.95	K	Joback Method
tf	262.42	K	Joback Method
vc	0.627	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	380.66	J/mol×K	507.30	Joback Method
cpg	399.38	J/mol×K	540.08	Joback Method
cpg	417.21	J/mol×K	572.85	Joback Method
cpg	434.17	J/mol×K	605.63	Joback Method
cpg	450.29	J/mol×K	638.40	Joback Method
cpg	465.58	J/mol×K	671.18	Joback Method
cpg	480.08	J/mol×K	703.95	Joback Method
dvisc	0.0039283	Pa×s	262.42	Joback Method
dvisc	0.0017166	Pa×s	303.23	Joback Method

dvisc	0.0009130	Pa×s	344.05	Joback Method
dvisc	0.0005551	Pa×s	384.86	Joback Method
dvisc	0.0003713	Pa×s	425.67	Joback Method
dvisc	0.0002665	Pa×s	466.49	Joback Method
dvisc	0.0002017	Pa×s	507.30	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R516600&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
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