5-Hexenylcyclopentane

Inchi: InChI=1S/C11H20/c1-2-3-4-5-8-11-9-6-7-10-11/h2,11H,1,3-10H2
InchiKey: KDMICNUSJPQXFA-UHFFFAOYSA-N
Formula: C11H20
SMILES: C=CCCCCC1CCCC1
Mol. weight [g/mol]: 152.28

Physical Properties

Property code	Value	Unit	Source
gf	166.13	kJ/mol	Joback Method
hf	-84.46	kJ/mol	Joback Method
hfus	16.90	kJ/mol	Joback Method
hvap	39.67	kJ/mol	Joback Method
log10ws	-3.93		Crippen Method
logp	3.923		Crippen Method
mcvol	150.690	ml/mol	McGowan Method
pc	2374.90	kPa	Joback Method
rinpol	1126.80		NIST Webbook
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tb	463.04	K	Joback Method
tc	654.40	K	Joback Method
tf	222.87	K	Joback Method
vc	0.574	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	328.88	J/mol×K	463.04	Joback Method
cpg	413.53	J/mol×K	622.51	Joback Method
cpg	398.34	J/mol×K	590.62	Joback Method
cpg	382.32	J/mol×K	558.72	Joback Method
cpg	365.43	J/mol×K	526.83	Joback Method
cpg	347.62	J/mol×K	494.93	Joback Method
cpg	427.91	J/mol×K	654.40	Joback Method
dvisc	0.0002975	Pa×s	463.04	Joback Method

dvisc	0.0003795	Pa×s	423.01	Joback Method
dvisc	0.0005095	Pa×s	382.98	Joback Method
dvisc	0.0007327	Pa×s	342.95	Joback Method
dvisc	0.0011598	Pa×s	302.93	Joback Method
dvisc	0.0021113	Pa×s	262.90	Joback Method
dvisc	0.0047666	Pa×s	222.87	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=R388955&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

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