

8-Nonenylcyclopentane

Inchi:	InChI=1S/C14H26/c1-2-3-4-5-6-7-8-11-14-12-9-10-13-14/h2,14H,1,3-13H2
InchiKey:	VFTBIKFFYRYP RR-UHFFFAOYSA-N
Formula:	C14H26
SMILES:	C=CCCCCCCCC1CCCC1
Mol. weight [g/mol]:	194.36

Physical Properties

Property code	Value	Unit	Source
gf	191.39	kJ/mol	Joback Method
hf	-146.38	kJ/mol	Joback Method
hfus	24.67	kJ/mol	Joback Method
hvap	46.34	kJ/mol	Joback Method
log10ws	-5.19		Crippen Method
logp	5.093		Crippen Method
mcvol	192.960	ml/mol	McGowan Method
pc	1826.28	kPa	Joback Method
tb	531.68	K	Joback Method
tc	716.70	K	Joback Method
tf	256.68	K	Joback Method
vc	0.742	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	476.09	J/mol×K	531.68	Joback Method
cpg	568.83	J/mol×K	685.87	Joback Method
cpg	552.15	J/mol×K	655.03	Joback Method
cpg	534.57	J/mol×K	624.19	Joback Method
cpg	516.06	J/mol×K	593.35	Joback Method
cpg	496.58	J/mol×K	562.52	Joback Method
cpg	584.65	J/mol×K	716.70	Joback Method
dvisc	0.0002550	Pa×s	531.68	Joback Method
dvisc	0.0003313	Pa×s	485.85	Joback Method
dvisc	0.0004544	Pa×s	440.01	Joback Method

dvisc	0.0006710	Pa×s	394.18	Joback Method
dvisc	0.0010976	Pa×s	348.35	Joback Method
dvisc	0.0020842	Pa×s	302.51	Joback Method
dvisc	0.0049762	Pa×s	256.68	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=R388975&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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