1-Nonene, 4,8-dimethyl

Inchi: InChI=1S/C11H22/c1-5-7-11(4)9-6-8-10(2)3/h5,10-11H,1,6-9H2,2-4H3
InchiKey: FJKWUTOENNXMSR-UHFFFAOYSA-N
Formula: C11H22
SMILES: C=CCC(C)CCCC(C)C
Mol. weight [g/mol]: 154.29

Physical Properties

Property code	Value	Unit	Source
gf	124.70	kJ/mol	Joback Method
hf	-155.50	kJ/mol	Joback Method
hfus	15.92	kJ/mol	Joback Method
hvap	38.63	kJ/mol	Joback Method
log10ws	-3.80		Crippen Method
logp	4.025		Crippen Method
mcvol	161.550	ml/mol	McGowan Method
pc	2036.39	kPa	Joback Method
rinpol	1015.00		NIST Webbook
tb	446.88	K	Joback Method
tc	618.79	K	Joback Method
tf	181.97	K	Joback Method
vc	0.621	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	343.13	J/mol×K	446.88	Joback Method
cpg	359.48	J/mol×K	475.53	Joback Method
cpg	375.15	J/mol×K	504.18	Joback Method
cpg	390.17	J/mol×K	532.83	Joback Method
cpg	404.55	J/mol×K	561.48	Joback Method
cpg	418.32	J/mol×K	590.13	Joback Method
cpg	431.50	J/mol×K	618.79	Joback Method
dvisc	0.0171183	Pa×s	181.97	Joback Method
dvisc	0.0039925	Pa×s	226.12	Joback Method

dvisc	0.0014982	Pa×s	270.27	Joback Method
dvisc	0.0007404	Pa×s	314.42	Joback Method
dvisc	0.0004352	Pa×s	358.58	Joback Method
dvisc	0.0002875	Pa×s	402.73	Joback Method
dvisc	0.0002061	Pa×s	446.88	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=R46954&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